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ANNUAL REPORT

OF THE

Department of Public Health

PROVINCE OF ALBERTA

INCLUDING

Vital Statistics Branch

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON:

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ANNUAL BILLIORY

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Edmonton, December 22, 1932.

To His Honour

W. D. Walsh,
Lieutenant Governor of the Province of Alberta.

SIR,—

I have the honour to transmit herewith the Annual Report of the Department of Public Health-for the year 1931.

I have the honour to be, Sir,

Your obedient servant,

George Hoadley,

Minister of Health.

Edmonton, December 22, 1932.

To the Honourable George Hoadley, Minister of Health,

Parliament Buildings, Edmonton, Alberta.

SIR,—

I have the honour to submit herewith the Thirteenth Annual Report of the Department of Health.

I have the honour to be, Sir,

Your obedient servant,

Malcolm R. Bow, M.D., C.M., D.P.H., Deputy Minister.

THIRTEENTH ANNUAL REPORT OF THE PROVINCIAL DEPARTMENT OF PUBLIC HEALTH, INCLUDING THE VITAL STATISTICS REPORT

THE DEPARTMENT

Divisions:

- Communicable Diseases. 1.
- 2. Public Health Education.
- 3. Hospital Inspection.
- 4. Laboratory.
- Public Health Nursing. 5.
- Municipal Hospitals. Charity and Relief.
- 7. Social Hygiene.
- Sanitary Engineering and Sanitation. 8.
- 9. Dental Hygiene.
- 10. Mental Health.
- 11. Institutions: Provincial Mental Hospital, Ponoka. Provincial Mental Institute, Oliver. Provincial Training School, Red Deer. Psychopathic Ward, University Hospital. Central Alberta Sanatorium, Calgary.

12. Vital Statistics.

A report giving a summary of the work of each of these divisions is included herewith.

THE ADVISORY COMMITTEE OF HEALTH.

The Advisory Committee of Health met on January 27, 1931, with the following members in attendance:

Mrs. O. C. Edwards, Macleod, representing Urban Women.

Mrs. J. H. Field, Spurfield, representing Rural Women. Dr. W. A. Wilson, Edmonton, representing the Medical profession at

large. Dr. Geo. R. Johnson, Calgary, representing the College of Physicians and Surgeons.

and Surgeons.
Dr. A. F. Anderson, Edmonton, representing General Hospitals.
Dr. J. J. McPherson, Castor, representing Rural Physicians.
Dr. E. Pope, Edmonton, representing the Faculty of Medicine, University of Alberta.
Mr. A. T. Stephenson, Red Deer, representing Municipal Hospitals.
Mrs. R. J. Gaunt, Edmonton, representing the Nurses.
Mr. H. E. G. H. Scholefield, Galgary, representing Rural Laymen.
Mr. E. Roper, Edmonton, representing Urban Laymen.
Dr. M. R. Bow, Deputy Minister of Health, Chairman.

The following questions were discussed by the Committee:

Amendments to Hospital Regulations. New Developments in Departmental Work.

Report on the Work of the Red Deer and Okotoks-High River Health Units.

Medical Examination of Rural School Children.

Pasteurization of Milk. Public Health Education. Resolutions were adopted by the Committee relating to the Provincial Hospital Regulations, in regard to the need of provision being made for the physical examination of rural school children by qualified physicians, endorsing the resolution adopted by the Central Alberta Medical Association requesting that assistance in organization and financial aid be extended by the Province to the various local health authorities to enable them to arrange for the tuberculin testing of all cows producing milk which is offered for sale. A resolution was adopted by the Committee supporting the request of the Secretary-Treasurer of the Municipal District of Peace No. 857 that provision 145 of The Municipal Districts Act relating to portions thereof be embodied in Section 157 of the same Act.

REGULATIONS PASSED DURING THE YEAR

Additions to the Public Health Regulations re Trachoma—August 31, 1931.

LEGISLATION PASSED DURING THE YEAR

The Hospitals Act Amendment Act, 1931.

The interpretation of "home for incurables" has been struck out and the following substituted:

"A place other than a hospital" shall mean any institution approved of by the Minister for the reception of persons suffering from incurable diseases or persons incapacitated by reason of advanced age.

The Lieutenant Governor in Council may prescribe regulations respecting the management, maintenance, operation and accommodation of:

- (a) any approved hospital receiving a per diem allowance under this Act, and the conditions on which such per diem allowance may be made;
- (b) any approved hospital not receiving a per diem allowance under this Act;
- (c) any place other than a hospital caring for patients suffering from incurable diseases, or persons incapacitated by reason of advanced age.

The power to prescribe regulations as to private hospitals has been struck out.

The definition of resident has been changed to read:

"Resident" means any person who has had his home within the area controlled by the local authority for at least three successive months of the six months immediately preceding the application for placing such person in a hospital; and any person not having had a home as last aforesaid, who has been a sojourner within the area controlled by the local authority for at least three successive months of the six months immediately preceding the date of the application for placing such person in a hospital;

Provided always that any such person had at the date of such application no permanent home elsewhere than in the Province.

Any member of the council and the secretary-treasurer of the council may sign and issue written orders on behalf of the local authority of which he is a member or by which he is employed.

Subsections (8) and (9) of Section 7 of the Act have been struck out and the following substituted:

(8) "When a local authority has entered into a contract with any hospital for the accommodation and care of indigent persons within its area and such contract has been approved by the Minister, and any such indigent person is accommodated and cared for in any hospital other than the contracting hospital, the last mentioned hospital shall be entitled

to recover from the local authority for the accommodation and care of such indigent the same amount as would have been payable by the local authority to the hospital with which it had entered into a contract as aforesaid, if such indigent had been accommodated and cared for in that hospital."

Provided that a hospital board shall only be entitled to the benefit of this section if it notifies the local authority it seeks to make chargeable in writing of the accommodation and care of such indigent person as soon as is reasonably possible with use of ordinary diligence and having regard to all the circumstances of the case.

In the event of any dispute arising as to the meaning or effect of any contract, or whether the contracting hospital is unable or has failed to provide adequate suitable care or treatment as is provided for by any contract made with it, or as to whether any circumstances are or are not of sudden or urgent necessity, or as to whether or not any person is or is not an indigent within the meaning of this section, or as to whether a person is a resident of the area of a local authority, the Minister may determine all questions involved in any such dispute, and his decision thereon shall be final.

Admission to an approved hospital not receiving a per diem allowance under this Act or to a place other than a hospital shall be by contract between the local authority of the area of which the person is a resident and such approved hospital or place other than a hospital to which the person is admitted, and any contract so made and approved of by the Minister shall be valid, notwithstanding any other provision of this Act or any other Act or limitation as to charges contained therein.

The Municipal Hospitals Act, 1929, Amendment Act, 1931.

An amendment increases the number of ratepayers required for a petition for the establishment of a hospital district from ten per cent. to twenty-five per cent.

A nominated agent of a corporation which is a ratepayer shall be deemed a ratepayer until he ceases to be a resident or until the corporation nominates some other person in his stead.

Provision is made that a Board may enter into an agreement with one or more qualified medical practitioners for the providing of medical services to the residents of the hospital district, either without charge or at such a rate of payment as may be fixed in the agreement, and every such agreement shall provide for the payment by the district of a remuneration payable to the medical practitioner or practitioners for the services to be rendered, and shall specify the area in which and the term during which such services are to be rendered.

Power is given the returning officer to appoint deputy returning officers and polling places for each division.

The Minister is given authority to make an addition to a hospital district upon receipt of a petition signed by sixty per cent. of the resident ratepayers of the additional area.

Upon any addition being made to the district the Board may for the purpose of providing additional hospital accommodation and equipment issue debentures in addition to existing debentures, to an amount which bears the same proportion to the amount of the debentures it was authorized to issue before such addition, as the area of such addition bears to the area of the district before the making of such addition.

An amendment makes the wife or husband of any person who is eligible for election as member of the board, also eligible.

The amount which may be paid to a representative of a contributing council for attending board meetings is limited to ten per cent. of the contribution of that council.

The Board is given power to borrow against the full amount for which it has made a requisition.

The Board with the consent of the Minister may borrow on the security of accounts receivable.

Provision is made for the payment of the proper expenses of an official administrator.

The Mental Diseases Act Amendment Act, 1931.

The amending Act divides the Act into two parts, of which Part I is of general application and Part II contains special provisions relating to the management of psychopathic wards.

The time for which a patient may be temporarily permitted to leave a hospital is extended from three days to ten days.

The Act contains special provisions as to the conditions under which persons may be admitted to, detained in, or released from psychopathic wards, provides for the appointment of a Commissioner of Mental Institutions and Director of Mental Health and defines his duties.

TABLE No. 1 DEPARTMENT OF PUBLIC HEALTH.

FINANCIAL STATEMENT FOR THE FISCAL YEAR ENDING MARCH 31st. 1932

D:	TT 1	141111011 0150, 1		E	Dawana
Div.	Vote.	Name.	Salaries.	Expenses.	Revenue.
1.	605,	Communicable Diseases		\$ 11,342.52	\$ 2,068.23
2.	602.	Public Health Education	3,400.00	1,450.38	
3.	603.	Hospital Inspection	4,817.40	1,027.92	370.00
		Grants		421,621.00	***************************************
4.	-	Laboratory			***************************************
5.	606.	Public Health Nursing and Clinics	42,322.09	25,709.67	6,004.86
6.	608.	Municipal Hospitals	3,884.25	1,272.41	543.60
		Charity and Relief	3,061.10	51,522.87	
7.	610.	Social Hygiene	9,270.35	8,980.33	6,504.21
8.	605.	Sanitary Engineering and Sanitation.	11,968.78	20,675.24	1,006.69
9.		Dental Hygiene			
10.	622.	Mental Health	8,291.29	12,339.81	
11.		Institutions:			
	614.	Provincial Mental Hospital, Ponoka	282,528.56	152,670.80	146,350.07
	612.	Provincial Mental Institute, Oliver	74,746.69	35,344.15	29,849.16
	613.	Provincial Training School, Red Deer	51,160.90	25,239.44	38,371.17
	622.	Psychopathic Ward, University			
		Hospital		9,750.00	3,520.60
	604.	Central Alberta Sanatorium, Calgary	118,910.10	71,351.04	118,869.82
		University Hospital		20,000.00	
12.	607.	Vital Statistics	15,719.30	11,023.38	37,407.62
		Grants to Homes		3,500.00	
		Administration	14,662.85	5,268.20	687.93
			\$648,993.66	\$890,089.16	\$391,553.96
	TOTA	L-Public Health Administration		\$1,539,0	82.82
	TOTA	L—Public Health Revenue	• • • • • • • • • • • • • • • • • • • •	391,5	
	TOTA	L-Public Health Net Cost	• • • • • • • • • • • • • • • • • • • •	\$1,147,5	28.86

GENERAL HEALTH CONDITIONS

In spite of the very difficult economic situation, the favourable health conditions experienced in 1930 were even more pronounced during the year 1931. From a public health point of view, 1931 was a record year in many respects. Reference to the Vital Statistics report indicates that in 1931 the lowest death rate in the history of the Province was recorded (7.2 deaths per 1,000 population); 5,302 deaths, 5,142 marriages and 17,252 births were registered in 1931. The birth rate was 23.57 per 1,000 as compared with 26.71—the rate for 1930. There was a lower incidence of practically all of the acute communicable diseases. The combined death rate (deaths per 100,000 population) for Diphtheria, Scarlet Fever, Measles and Whooping Cough was 9.8 as compared with 20.8, the average rate for the last five years.

In recent years there has been a marked reduction in the number of cases and in the number of deaths from Diphtheria, as the following table indicates:

Year.		Cases.	Deaths.	Death Rate.
1922	***************************************	732	121	20
1923	***************************************	832	82	14
1924	***************************************	758	100	17
1925	***************************************	395	62	10
1926	***************************************	260	60	10
1927	***************************************	235	18	3
1928	***************************************	485	50	8
1929	***************************************	578	64	10
1930	***************************************	269	30	4.5
1931	***************************************	151	25	3.6

Diphtheria is almost entirely preventable. If our people will only avail themselves of the protection which science has placed in our hands, this disease can be practically eliminated as a cause of death. The toxoid required for immunization purposes is supplied free of charge by the Department. While the larger cities and some of the towns and rural districts have conducted well organized immunization campaigns in recent years, there are still many towns, villages and rural districts in which nothing has been done to protect the children. In such districts outbreaks of Diphtheria and deaths from this disease will occur sooner or later.

Twenty-seven cases of Smallpox were reported during the year, and one death occurred from this disease. While Smallpox did not present any problem in 1931, the fact that we have a large unvaccinated population in Alberta gives us cause for real concern. It has been demonstrated over and over again that Smallpox can only thrive in unvaccinated communities. There should not be a single case of this entirely preventable disease in an enlightened community, much less loss of life from this cause. Most of our outlying districts enjoy much better protection against Smallpox than our urban and rural municipalities. During the year 1931, 2,062 individuals in the more outlying districts were vaccinated by one of the inspectors devoting part of his time to this work.

Typhoid Fever cases to the number of 43 were reported, and 16 deaths occurred from this disease in 1931, giving us a typhoid rate of 2 per 100,000 population. Contaminated water supplies particularly in the irrigated districts were responsible for most of our typhoid infection in 1931. Water supplies drawn from streams and irrigation ditches must be regarded as contaminated, and the water from such sources must be chlorinated or boiled before being used if the menace of Typhoid Fever in these districts is to be removed.

The year 1931 was one of comparative freedom from outbreaks of Influenza of the more serious type. However, 192 deaths were ascribed to Influenza and 416 deaths to Pneumonia (all forms).

Each year the death rate from the respiratory infections goes up as the windows come down. In our climate over-heated homes, offices and schools, in which little or no provision has been made for ventilation and humidification, constitute a serious menace to health.

Tuberculosis was reported as the cause of 385 deaths in Alberta in 1931. Of this number 310 were deaths from Pulmonary Tuberculosis. The death rate from all types of Tuberculosis was 52.5 per 100,000 population and from the pulmonary type of the disease 42.5. Excluding the Indian population, which numbers approximately 13,500, the total number of deaths from all forms of Tuberculosis was 219, and the death rate per 100,000 population 29.9. The very high incidence of and the high death rate from Tuberculosis among the Indian population constitutes a problem of major importance to the public health. The most important problem with which we are confronted in regard to Tuberculosis is the lack of adequate accommodation in the Sanatorium. The total number of beds now available is 210. In the past it has been considered by authorities that one bed for each yearly death occurring from the disease is the minimum accommodation required, but recent experience indicates that if an effective state-wide plan of Tuberculosis prevention and control is to be applied, 2.5 beds for each yearly death from the disease are necessary. In view of the length of time patients requiring sanatorium treatment now have to wait for accommodation and in view of the risk of infection to other members of the family and to the community where such patients remain at home, this is the most urgent public health problem with which we are now faced.

Cancer.

There were 441 deaths from Cancer in 1931, giving a Cancer death rate of 60. The number of deaths and the death rate from this disease for the period 1922 to 1931 is shown in the following table:

Year.	Deaths.	Death Rate (per 100,000 pop.)
1922	322	53
1923	293	47
1924	348	55
1925	341	57
1926	356	59
1927	420	68
1928	415	66
1929	452	70
1930	482	73
1931	441	60

In practically all civilized countries there has been a marked increase in the Cancer death rate in recent years. The Cancer death rate in Alberta and the other prairie provinces is considerably lower than that in the Eastern provinces, largely because of the lower age distribution of our population. The rate in Alberta for 1931 was the lowest in Canada, the highest rate in any province was 116, and the average rate for Canada was 92. During the year a committee was appointed by the Executive of the Alberta Medical Association to make a study of the Cancer situation. This committee has been organized as Northern and Southern Sections, and a number of meetings of each of these sections have been held. The recommendation of the Cancer Committee that a Cancer questionnaire be sent to each physician in active practice for the purpose of securing as complete information as possible concerning cases of Cancer which have come under observation and treatment and the further recommendation that the Provincial Department of Health be requested to make Cancer a notifiable disease were endorsed by the Alberta Medical Association at the annual meeting in Calgary.

The Department has co-operated closely with the Association in connection with this Cancer survey, and splendid co-operation has been given by the physicians and hospitals of the Province in completing the questionnaires, 732 of which have been returned to the Department. A summary of these returns is now being prepared. In the course of time, as the information submitted is more complete, data of great value in the study of the Cancer problem should be available from these returns.

Infantile Mortality Rate.

The number of deaths of children under one year of age in 1931 was 1,197, giving an infantile mortality rate of 69.4 (deaths under 1 year of age per 1,000 living births). This rate, while somewhat higher than the rate for 1930 (63.5), is materially lower than the rate for previous years. The rate for the rural districts and for the towns and villages of the Province is, generally speaking, much

higher than the rate for the larger cities in which efficient full-time service of modern health departments is available. In 1931 the average rate for the rural districts was 75.4 and for the cities of the Province 57.4. Of the deaths of children under one year of age, 647 deaths occurred within the first month of life and 428 within the first week. There were 141 deaths of children under one year of age from Diarrhoea, 249 deaths from respiratory infections (including Influenza), and 34 deaths from acute contagious diseases. The urgent need for well organized local health service in our rural districts and in our small urban centres becomes evident when one studies the causes of infantile deaths in such areas. It is quite conservative to say that if an effective preventive health service were available in all sections of the Province, the number of infant deaths would be reduced by one-third. This would mean a saving of approximately 400 lives each year.

Maternal Mortality.

There were 87 deaths of mothers from conditions associated with childbirth in 1931. This means that for every 1,000 children born during the year five mothers died. This is the lowest rate recorded in recent years. The rate for each of the years from 1927 to 1931 was as follows:

Year.		Rate.
1927	*****	6.4
	***************************************	6.8
1929	***************************************	7.3
1930	***************************************	6.5
1931		5.0

While the maternal mortality rate for Alberta and the other provinces was, generally speaking, considerably lower in 1931, our rate is almost double that of Norway, Sweden and Denmark, in which countries each year a rate below 3 is recorded. Social, economic and many other factors enter into the situation in respect to maternal mortality. Perhaps the most urgent need in so far as our situation is concerned is more adequate facilities for pre-natal care, particularly in our rural districts.

FULL-TIME HEALTH DISTRICTS

The Red Deer and the Okotoks-High River Full-Time Health Districts, the organization of which was completed in 1930, were established in 1931 and the service instituted on June 1st.

The Red Deer district embraces the City of Red Deer, Municipal Districts Nos. 400, 399, 339, 371 and 340, and the following towns and villages: Lacombe, Blackfalds, Eckville, North Red Deer, Sylvan Lake, Innisfail, Penhold and Bowden.

The Okotoks-High River district embraces Municipal Districts Nos. 189, 191, 158, 159, Improvement District No. 160, and the following towns and villages: High River, Blackie, Okotoks, Vulcan, Nanton, Cayley, Turner Valley and Black Diamond.

The staff of each of these health districts is composed of a medical officer of health, who has received special training in public health work, through the courtesy of the Rockefeller Foundation in awarding Fellowships for this purpose, a well qualified public health nurse, a graduate nurse, who has received special training in laboratory work, and a stenographer, who has charge of clerical work and records. In addition, the time of an experienced

sanitary inspector is divided between the two districts. The District Board of Health, composed of one representative from each of the municipalities included in the health district, is responsible for the administration of the unit, the Department acting in an advisory capacity. Each of the district boards of health has taken a keen interest in the development of the service, and each has been fortunate in securing the services of a well trained, enthusiastic and efficient staff.

The establishment of these districts marks an effort to demonstrate the value of a full-time preventive service in dealing with the health problems of our rural districts and small urban centres.

The budget of each Health District is \$10,000.00 per year, of which amount the Provincial Department is contributing 50% and the Rockefeller Foundation 25%.

The following is a brief summary of the work carried on in each of these health districts for the period during which they were in operation—June 1st to December 31st, inclusive:

EDUCATIONAL:	Red Deer	. High River
Lectures	1.645	
Bulletins Distributed	11.830	
Newspaper Articles	8	48
Letters (including circular letters)	1,052	368
Reports (including notification of defects)	1,454	66
Conferences attended	1,434	1
Health talks prepared	16	
SANITARY INSPECTIONS:		
Private premises	16	98
Public premises	35	32
Dairies	65	21
Creameries and Ice Cream Factories	27	18
	60	66
Hotels, Restaurants, Soda Fountains	00	00
EXAMINATIONS:	110	9.0
Life Extension	116	39
Other examinations	2	35
CONTROL OF ACUTE COMMUNICABLE DISEASES:		
Visits to cases, contacts, suspects	106	52
Cases isolated	82	46
IMMUNIZATION:		
Anti-Smallpox	115	67
Inspections of Vaccinations	105	-
Toxoid Inoculations		1,203
CHILD HYGIENE:		
Infants examined	80	174
Pre-school children examined	90	272
Number of schools visited	96	111
School children examined	2,145	779
School children found defective	1,731	580
School children found under-weight, 10%	446	126
Follow-up visits (Home)	71	69
LABORATORY:		
Urinalyses	73	2.0
Olinaryses		

PUBLIC HEALTH EDUCATIONAL WORK

Our public health educational work was carried on along much the same lines as in previous years. By means of lectures, exhibits, demonstrations, health bulletins and radio talks an effort has been made to stress the importance of and the need for preventive service. A feature of the educational programme this year was the arrangement made for lectures to women and senior girls at 54 centres of the Province on "The Hygiene of the Period of Adolescence." The lectures were given by Dr. Margaret Owens during the first three months of the year, and great interest was manifested at the various centres on the itinerary. This lecture-itinerary was undertaken with the co-operation of a number of the women's organizations of the Province.

There is an increasing demand for health educational service which the Department is endeavoring to meet as far as possible, recognizing that this is perhaps the most productive field in public health.

PUBLIC HEALTH NURSING AND CHILD WELFARE

A public health nurse is in charge of each of the following Child Welfare Clinics: Edmonton, Calgary, and Medicine Hat, and local physicians who devote special attention to pediatrics are in attendance at these clinics each week. At these child welfare clinics some 15,000 children were examined during the year and 12,000 home visits were made by the nurses in charge. Nearly 4,000 infants and pre-school children were examined by the staff of the Travelling Child Welfare Clinic.

A public health nurse is stationed in each of the following Municipal Districts: Norma No. 515, with Vegreville as a centre; Marquis No. 157, with Milo as a centre; and Richdale No. 274, with Stanmore as a centre.

In these districts a generalized public health nursing service is being rendered. In each of these centres a child welfare clinic has been established, and in each district a keen interest has been shown in this work. In districts in which there is not sufficient concentration of population to make the establishment of full-time health units feasible, the placing of thoroughly qualified public health nurses to serve two rural municipalities and the towns and villages included therein would provide an excellent type of service.

Nine of the outlying districts of the Province are served, two by district physicians and seven by district nurses. These districts are as follows: Worsley, Notikewin, Wanham, Valley View, Jarvie, Kinuso, Slave Lake, Pendryl and Peers. During the year the work of the Slave Lake and Kinuso districts was consolidated, and the new district of Worsley was established. The staff serving these outlying districts is required to possess a high degree of courage, initiative and skill in dealing with the difficult problems often experienced in pioneer communities remote from hospital and medical service. A detailed statement of the work of the Public Health Nursing Division is submitted in the report of this division.

SOCIAL HYGIENE

A feature of the work of the Social Hygiene Division which is of special interest from the preventive viewpoint is the attention given to early detection of neurosyphilis. By giving adequate treatment at once to patients in whose cerebro-spinal fluid the laboratory examinations indicate changes indicative of neurosyphilis, it is hoped the disastrous consequences of the development of clinical neurosyphilis may be obviated. It is our policy to give the malaria pyrexia treatment to all such cases. During the year 326 cerebro-spinal fluids were examined, and of these 45 were found to be positive—indicating that the nervous system is affected in about 13.8% of our syphilitics. If as a result of early recognition and prompt treatment these cases can be prevented from becoming institutional charges, our policy in this connection will effect an enormous saving to the Province. The total number of cases of syphilis under treatment at all clinics during 1931 was 878, and the

total number of cases of gonorrhoea 1,031 as compared with 444 cases of syphilis and 818 cases of gonorrhoea under treatment in 1930. The increase in the number of cases of both syphilis and gonorrhoea under treatment in provincial clinics in 1931 is considered to be largely due to economic conditions. Many patients who had formerly been treated by private physicians are now without the means to continue private treatment and have become clinic patients.

THE PROVINCIAL LABORATORY

Some idea of the great service to public health rendered by the Provincial Laboratory is given in the review of the work of the Laboratory submitted by Dr. Allan C. Rankin, Provincial Bacteriologist. During the year 1931, 57,245 examinations were carried out—an increase of 6,898 examinations over the previous year.

The work of the Provincial Laboratory embraces the examination of water, ice, sewage, milk, the examinations required in connection with communicable disease control in tuberculosis, diphtheria, typhoid fever, syphilis, gonorrhoea and other communicable diseases, the examination of pathological material submitted by hospitals, chicken and cattle blood examinations, medico-legal examinations, post mortem examinations, and many other examinations which the Laboratory carries out for physicians and local boards of health, free of charge. In addition to this service, vaccines and sera are prepared and distributed by the Laboratory. All convalescent serum used in the treatment of poliomyelitis (Infantile Paralysis) is prepared in the Provincial Laboratory. In addition, research work relating to bovine tuberculosis has been carried on under the direction of Dr. Rankin for a number of years. The commercial value of the public health service rendered by the Laboratory in 1931, if only minimum charges were made, was \$136,019.07.

SANITARY ENGINEERING AND SANITATION

The plans and specifications submitted to the Provincial Board of Health for waterworks, sewerage and sewage disposal plants as required under the Public Health Act were examined, and where approval was given certificates have been issued. A statement of the works for which certificates have been issued is submitted in the report of the Sanitary Engineering Division. The vital importance of the necessary action being taken by municipalities to ensure the safety of public water supplies has been stressed. There are, however, some districts which have not yet acted on the recommendations of the Department, and it cannot be too strongly emphasized that to depend on untreated water drawn from running streams as a source of supply is extremely hazardous, and constitutes a serious menace to the health and lives of the citizens in such districts.

Much useful work was accomplished by the sanitary inspectors in the inspection of 232 health districts and 33 lumber, tie, sawmill and mining camps. Since the establishment of the two full-time health districts the services of one of the sanitary inspectors have been divided between the Department and the health districts, one-third of his time being devoted to the work of the Department and

two-thirds to the health districts. There is a great need for the expansion of this service as soon as financial conditions will permit.

HOSPITAL INSPECTIONS

There are 91 approved hospitals in the Province in receipt of the Government Grant. Seventy-four private hospitals were licensed under the provisions of The Private Hospitals Act, of which 19 were baby shelters. All hospitals were inspected during the year with the exception of isolation hospitals, which were closed on the occasion of the hospital inspector's visit to the district, and four hospitals in remote districts. The management and the staffs of the various approved hospitals have given excellent co-operation in carrying out the requirements of the Hospital Regulations. Arrangements were made this year to have Dr. R. Proctor, Radiologist of the University Hospital, accompany the inspector of hospitals on his visits to the hospitals in the northern part of the Province for the purpose of inspecting the facilities for X-ray work, making recommendations to the hospitals, and instructing the technicians doing this work as to how improvements might be obtained in their results. It is hoped that we may be able to extend this service to include all hospitals, in order that the best results may be obtained with the equipment in use. As soon as financial conditions permit. the Department proposes to set a standard of qualifications for all technicians employed in X-ray and Laboratory work.

The total bed capacity of all hospitals in the Province, including the Central Alberta Sanatorium, is 4,495, divided as follows:

General	2,496
Maternity	625
Children	256
Infants	527
Isolation	290
Tuberculosis	301

This gives one bed for every 163 of the population, or 6.1 beds per 1,000 population; 67,010 patients were treated during the year, which represents 9.1% of the population. Excluding the Sanatorium, Junior Red Cross and S.C.R. cases—which are, generally speaking, long treatment cases—the average days' stay in hospital was 11.1 days. The average cost per patient day, excluding capital charges, was \$3.35, as compared with \$3.51 for the year 1930. Present economic conditions have made it most difficult for the hospitals, but a valiant effort is being made to give the most efficient service possible at the minimum cost. Other statistics of interest will be found in the report of the Hospitals Division.

MUNICIPAL HOSPITALS

Twenty-two municipal hospitals were in operation in 1931. No new municipal hospital districts were established during the year, but additional territory was taken in by eight municipal hospitals. There are 735 beds (including 126 bassinettes) in the municipal hospitals, and 15,573 patients were treated in these hospitals during the year. While the municipal hospitals have experienced many difficulties in carrying on under present economic conditions with the low level of prevailing prices for the products of the farm, the various boards have faced their problems with courage and a determination to carry on and give the best service possible with the funds available.

THE TRAVELLING CLINIC AND THE DENTAL CLINIC

The Travelling Clinic operated in 1931 as in previous years, but the itinerary was reduced, so that this clinic was only in the field this year from June 1st to September 16th. Many districts requesting the service could not be served in the time available. planning the itinerary an effort is made each year to visit districts which have not been served in the previous year or two, and to make the service available in districts where there appears to be the greatest need. Two hundred and ten districts were served from the 21 clinic centres established in 1931; 4,707 children were inspected by the survey nurses, 3,179 children were examined by the clinic physicians, and 676 operations for removal of tonsils and adenoids were performed, and 69 minor operations were performed. After the completion of the itinerary, a Dental Clinic was sent north to serve a number of districts from which urgent requests for such service had been received. The staff of the Dental Clinic, which operated from five centres, consisted of one dentist, one physician and one nurse.

CENTRAL ALBERTA SANATORIUM

In addition to the treatment of sanatorium patients, the medical staff of the Sanatorium provides the diagnostic service for the weekly clinics held at the Sanatorium and in Calgary, as well as for the clinic held fortnightly in Edmonton. In addition, a special five-day clinic was conducted in Medicine Hat serving the city and districts adjacent thereto, at which 185 persons were examined, and a five-day clinic was also conducted at the Blood Indian Reserve, Cardston, at which 234 persons were examined. Twenty-seven centres were visited by the travelling diagnostician, and 339 persons examined. A total of 1,608 persons were examined at all clinics, and 135 new cases of tuberculosis were diagnosed in this department. This is a service of far-reaching importance to the public health, but its usefulness is greatly impaired because of the lack of Sanatorium accommodation.

During the year 407 patients received institutional treatment, and the average patient strength was 204; 203 patients were admitted during the year, of which 102, or 50%, had a positive sputum on admission. The same high standard of service has been maintained by the staff as in previous years. The per diem cost of treatment has been reduced from \$2.67 for 1930 to \$2.49 for 1931.

MENTAL HEALTH DIVISION

The year 1931 has marked important developments in connection with the work of the Mental Health Division of the Department, under the able direction of Dr. C. A. Baragar, Commissioner of Mental Institutions and Director of Mental Health.

The Psychopathic Ward, providing accommodation for 16 patients in the south wing of the University Hospital, was opened for the reception of patients on January 29th. The opening of this ward marks an effort to provide accommodation for the care and treatment of early cases of mental disorder and more especially of those who may, as a result of early treatment, be discharged re-

covered or so improved in health as to render admission to a mental hospital unnecessary. This ward also provides facilities for the observation and treatment of patients in order to determine in what type of institution such patients may be cared for to the best advantage. It also serves as a centre for the examination of special out-patient cases referred for the opinion of a psychiatrist.

Ninety-three patients were admitted during the year, of which 47 were men and 46 women; 78.5% were voluntary admissions. The great majority of patients were referred by physicians.

MENTAL HYGIENE CLINICS

Three clinics have been established—the first in Edmonton in August, 1929, the second in Calgary in October, 1929, and the third in Lethbridge in November, 1930. The clinic in Edmonton is held weekly, in Calgary fortnightly, and in Lethbridge every fourth week. The purpose in establishing these clinics was to provide centres to which early mental cases, cases presenting behavior problems in the school or in the community and other such cases could be referred for examination to those competent to advise as to the proper course to follow in dealing with the various problems such cases present.

There has been a steady increase in the work of the clinics since their inception. New cases have increased from 52 in 1929 to 142 in 1930 and to 354 in 1931, while the cases dealt with as follow-ups either at the clinic or by the social worker in the field have increased from 50 in 1930 to 331 in 1931. The service provided by these clinics has met a real need, and has been very sympathetically received by the people. It is hoped that financial conditions will not long delay the extension of this service to other districts.

STAFF CHANGES IN MENTAL INSTITUTIONS

During 1931 a number of important changes in personnel have occurred.

After nineteen years' service to the Province, sixteen of which he served as head of the Provincial Mental Hospital at Ponoka, Dr. E. H. Cooke resigned on August 15, 1931, on account of ill-health.

Dr. C. P. Fitzpatrick, who served as a member of the medical staff of the Provincial Mental Hospital at Ponoka from January 1, 1924, to May 31, 1929, and as Medical Superintendent of the Provincial Mental Institute at Oliver from June 1, 1929, to July, 1931, and as Director of the Mental Hygiene Clinics from their inception, also resigned during the year through ill-health.

Dr. W. J. McAlister, Medical Superintendent of the Provincial Training School, Red Deer, was appointed Acting Medical Superintendent of the Provincial Mental Institute, Oliver, and took charge in July, and Dr. D. L. McCullough, Assistant Superintendent at the Provincial Mental Hospital, Ponoka, took charge as Acting Superintendent of the Provincial Training School, Red Deer.

Following the resignation of Dr. Cooke, Dr. C. A. Baragar was appointed Acting Superintendent of the Provincial Mental Hospital at Ponoka.

In September, Dr. Geo. A. Davidson, a physician with splendid qualifications for this important position, was appointed Assistant Medical Superintendent of the Mental Hospital at Ponoka.

In January, Miss Catherine Lynch, R.N., was appointed Superintendent of Nurses at Ponoka, and Miss E. M. Holmes, R.N., was appointed Matron of the Provincial Training School at Red Deer.

The most important developments of the year at the Provincial Mental Hospital Ponoka, have been the commencement of the reorganization of clinical services and social activities, the inauguration of a post-graduate course in psychiatric nursing, and definite progress in the development of a scheme for the beautification of the grounds.

At the Provincial Mental Institute, Oliver, the year was marked by the completion of construction of the new kitchen-dining room unit, which provides seating accommodation for 375 patients. When this fine new addition is in use, ward accommodation will be available for 75 additional male patients.

By alterations carried out at the Provincial Training School at Red Deer, additional accommodation has been provided for 18 patients, chiefly high-grade girls. This institution with 190 patients is filled to the limit of its capacity, and there is a long waiting list. The problem presented by the large number of mental defectives, many of whom present difficult social problems in the home, school and community, is one which prevailing economic conditions have accentuated.

TABLE No. 2
MOVEMENT OF PATIENTS—MENTAL INSTITUTIONS, 1931

		Books 1, 1931		ssions g 1931		narges g 1931		aths g 1931	On H Dec. 3	
	Insane	Mental Deficients	Insane	Mental Deficients	Insane	Mental Deficients	Insane	Mental Deficients	Insane	Mental Deficients
Oliver Ponoka Red Deer	300 1068 0	17 36 180	13 411 0	0 5 25	10 253 0	$\begin{matrix} 0\\1\\10\end{matrix}$	58 0	0 2 5	299 1168 0	17 38 190
Total	1368	233	424	30	263	11	62	7	1467	245

THE EUGENICS BOARD

The Sexual Sterilization Act was assented to March 21, 1928, and the first operation authorized by the Board was performed on May 10, 1929. Up to the end of 1931, 134 cases, of which 32 were men and 102 were women, were passed by the Board, and sterilization was authorized subject to certain conditions in certain of these cases. Of the cases in which the operation was authorized, at the end of the year 113 cases had been operated on—23 men and 90 women.

The need for this legislation has been fully demonstrated, and the very careful and efficient manner in which the Board has discharged its responsibilities under the Act has placed this Province in a position of leadership in dealing with this great problem. Many enquiries have been received from other provinces, and other parts of the Empire, as well as from foreign countries, as to the working of the Act and the progress of the work in Alberta.

Public Health Expenditures

Included in this report is a statement of expenditures for the fiscal year ending March 31, 1932. An analysis of this statement shows that of the total expenditure of \$1,539,082.82, approximately \$1,350,000.00 was expended for the maintenance and operation of Provincial institutions, for the provision of grants to approved hospitals, for relief purposes and other treatment services. Only \$189,000.00, or 12.6%, of the funds was expended for preventive public health services. This means that out of every dollar expended by the Department in 1931, slightly less than thirteen cents was expended on prevention. The need for the expansion of preventive services, as soon as financial conditions make this possible, is evident, and has been stressed in other sections of this report. Experience has fully demonstrated that funds expended for the development of well-planned and scientifically grounded preventive health services return dividends out of all proportion to the sums invested.

Conclusion

In concluding this brief review of the most outstanding phases of the work of the Department for the year 1931, I wish to express my deep appreciation of the splendid co-operation and efficient service given by the heads and the members of the staffs of the various divisions, as well as of the various institutions coming under the direction of the Department. This Department is indeed fortunate in the splendid type of men and women in its service as well as in the fine esprît de corps which exists throughout the service.

All of which is respectfully submitted.

Malcolm R. Bow,

Deputy Minister of Health.

Communicable Disease Division

(A. C. McGugan, M.D., Director)

The following table shows the number of cases of communicable diseases which have been reported in the Province of Alberta in 1930 and 1931:

1930 and 1931:	срогоса	
	TABLE :	No. 1
Disease. 1930.	1931.	Disease. 1930. 1931.
Anterior Poliomyelitis 150	23	Mumps 1302 481
Cerebro-spinal Meningitis 28	6	Scarlet Fever 1028 438
Chickenpox 1826	2152	Smallpox 81 27
Diphtheria 269	151	Tuberculosis (Pulmonary) 136 325 Typhoid Fever
Encephalitis Lethargica 4 Erysipelas	$\begin{array}{c} 1 \\ 54 \end{array}$	Typhoid Fever 69 43 Paratyphoid Fever 2
Rubella (German Measles) 42	69	Whooping Cough 1246 451
Measles 282	720	,
	TABLE	No. 2
		BLE DISEASES IN THE PROVINCE G THE YEAR 1931
Pneumonia (all forms)	410	Erysipelas 14
Influenza (all forms)	186	Scarlet Fever 8
Pulmonary Tuberculosis	306	Encephalitis Lethargica
Tuberculosis (all other forms) Diphtheria	76 25	Whooping Cough
Meningococcal Meningitis	9	Smallpox
Typhoid Fever	16	Measles 7
Mumps	-	
	TABLE :	No. 3
		ASES IN THE CITIES OF EDMONTON DURING 1931
EDMONTON		CALGARY
Pneumonia (all forms)	40	Pneumonia (all forms) 46
Influenza (all forms)	28	Influenza (all forms) 9
Pulmonary Tuberculosis	36	Pulmonary Tuberculosis 14
Tuberculosis (all other forms) Diphtheria	14 5	Tuberculosis (all other forms) 11
Whooping Cough	1	Diphtheria
Poliomyelitis	1	Poliomyelitis
Mumps		Mumps
Meningococcal Meningitis	4	Meningococcal Meningitis 1
Typhoid Fever	1 2	Typhoid Fever
Scarlet Fever	2	Scarlet Fever
Encephalitis Lethargica	_	Encephalitis Lethargica 3
Measles	_	Measles —
Smallpox		Smallpox
	TABLE	
DEATHS DUE TO COMMUNICABL VILLAGES AND RURAL	E DISEAS DISTRIC	SES IN THE SMALLER CITIES, TOWNS, TTS DURING THE YEAR 1931
Pneumonia (all forms)	268	Diphtheria
Influenza (all forms)	138 119	Whooping Cough
Pulmonary Tuberculosis Tuberculosis (all other forms)	31	Poliomyelitis
Meningococcal Meningitis	4	Mumps
Typhoid Fever	15	Measles
Erysipelas	8	Smallpox
Scarlet Fever	6	
	TABLE	
INDIAN DEATHS DUE TO CO OF AL	MMUNICA BERTA I	ABLE DISEASES IN THE PROVINCE DURING 1931
Pneumonia (all forms)	56	Meningococcal Meningitis
Influenza (all forms)	3.1	Typhoid Fever
Pulmonary Tuberculosis	137	Erysipelas
Tuberculosis (all other forms)	20	Scarlet Fever
Diphtheria	3	Encephalitis Lethargica
Poliomyelitis		Smallpox1
Mumps		

TYPHOID FEVER

43 cases—16 deaths

Most of the cases of typhoid fever reported from the Province have occurred in the irrigated districts. When one's only available source of water supply is the open stream, it is difficult to avoid typhoid and paratyphoid fever. The water should either be boiled or chlorinated.

In the control of this disease it is essential that concurrent and terminal disinfection be carried out thoroughly, and that every case be isolated until at least two negative specimens of the stool and urine have been obtained. In districts where typhoid fever is prevalent every individual should be vaccinated every two years.

SCARLET FEVER

438 cases—8 deaths

The scarlet fever record for the year 1931 is a decided improvement over that of 1930. The disease has continued to appear in a mild form and to spread in some districts because some of the cases have escaped recognition.

SMALLPOX

27 cases—1 death

While there have been a few sporadic cases reported as small-pox in the Province, there have been no epidemics of the disease during 1931. The fact that the disease has not been prevalent during the year is apt to engender a false sense of security. Frequent periodic vaccinations are necessary if the Province is to be freed of this preventable disease.

DIPHTHERIA

151 cases—25 deaths

Our Provincial diphtheria record continues to improve. The disease is a preventable one, and when parents, school authorities and municipal authorities have had every susceptible individual immunized against diphtheria, then we may expect our cases to be limited to the few imported ones.

CEREBRO-SPINAL MENINGITIS

6 cases—9 deaths

Not infrequently types of meningitis other than the meningococcal type are reported in this group, and the case fatality rate is unduly high. However, there have been relatively few cases of this disease in Alberta in 1931.

PULMONARY TUBERCULOSIS

325 cases—306 deaths

The above total of deaths includes deaths among our Indian population. Cases from this group have not been reported. The reporting of pulmonary tuberculosis is still far from complete.

ACUTE ANTERIOR POLIOMYELITIS

23 cases—8 deaths

The incidence of poliomyelitis has been quite low this year. This decline probably is due to the periodic downward curve that follows a year such as 1930, when the morbidity rate was unusually high. An adequate emergency supply of convalescent serum is being kept at various points throughout the Province.

MEASLES

720 cases—7 deaths

After a marked decline in the morbidity rate for measles during 1930, the morbidity curve seems to be again on the up-grade. The experience of those centres where convalescent measles serum has been used extensively shows that the disease may be prevented or its course controlled.

WHOOPING COUGH

451 cases—32 deaths

The morbidity rate for whooping cough for 1931 was about one-third of the rate for 1930. Whooping cough, both in its course and its complications, is one of the more serious communicable diseases. Early recognition and prompt isolation of cases are our most effective means of control.

TABLE No. 6 A SUMMARY OF THE MORBIDITY AND MORTALITY RATES IN THE MORE COMMON COMMUNICABLE DISEASES

	0 0 0 2 1 2 0 2	TOLINE	,	
Disease.	Total Cases.	Total Deaths.	Morbidity Rate.	Mortality Rate.
Anterior Poliomyelitis	. 23	8	3.2	1.1
Cerebro-spinal Meningitis		9	0.8	1.2
Pneumonia (all forms)		410	_	56.08
Influenza (all forms)		186	_	25.4
Pulmonary Tuberculosis		306	44.52	41.8
Pulmonary Tuberculosis (exclu-				
sive of Indians)		169		23.1
Diphtheria	. 151	25	20.7	3.4
Whooping Cough		32	61.9	4.3
Smallpox		1	3.7	0.1
Typhoid Fever		16	5.9	2.2
Erysipelas		14	7.3	1.9
Scarlet Fever		8	60.0	1.1
Encephalitis Lethargica		7	0.1	0.9
Mumps			65.9	-
Measles	. 720	7	98.6	0.9

Mr. Zalizniak, health inspector, visited 214 districts, vaccinated 2,062 individuals, immunized 1,688 against diphtheria, made 14 specal investigations, and carried on an educational programme in public health work during the year.

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Public Health Education Division

(F. T. Cook, Lecturer)

Health educational work in Alberta is of two general forms—indirect or incidental and direct or specific.

More than ever in the established lines of public health work, such as communicable disease control, sanitation, public health nursing, venereal disease clinics, child welfare clinics, travelling clinics, and diagnostic clinics stress is laid on preventive measures, and a great deal of valuable educational work is being done. For example, during the year 15,000 children were inspected in the regular child welfare clinics and 12,000 home visits were made by the nurses in charge of these clinics, nearly 4,000 infants and preschool children were examined at travelling child welfare clinics, 2,000 people pass through the venereal disease clinics annually, and in the course of the year the health inspectors make personal contact with a great number of people, while in the Sanatorium special attention is paid to educating the patients in methods of protecting other people.

Besides these incidental, though effective forms, a great deal of direct educational work was done. During the first three months of the year Dr. Margaret Owens conducted a series of meetings in the interest of sex education for women and senior girls. Fifty-four lectures on "The Period of Adolescence" were given to 4,036 women. This work was undertaken with the co-operation of a number of the women's organizations of the Province.

Lectures on home nursing, child and maternal hygiene, first aid, immunization, and talks to juniors were given at 124 places, to 3,117 people, mostly women, by Miss A. Conroy, the public health nurse engaged in this work.

Radio talks by members of the staff were broadcast from station CKUA every two weeks during the Homemakers' Hour, with the exception of a short period in the summer. In these talks such subjects as child welfare, mental hygiene, cancer and sanitation were outlined.

During the year monthly bulletins were published by the Communicable Disease Branch. In addition to these a special summer bulletin was issued. These bulletins were sent to all local boards of health and to individuals and organizations on request.

Two exhibits were held during the year, one at the Edmonton exhibition and one at the annual U.F.A. convention.

The usual lecture service was continued by the lecturer during the year. One hundred and fifty-seven meetings were held in 130 different places, with a total attendance of 21,150 people. Moving pictures, featuring various health topics, were shown at practically all meetings. Included in the above total are ten lectures with pictures on venereal diseases. Twenty meetings were held within the two full-time health distrcits, in co-operation with the medical officers of health.

An increasing number of requests for this service come from school boards, boards of trade, hospitals, rural and urban organizations, churches and community organizations.

There is a notable increase in the number of requests for health educational material in recent years. These include requests for material on sex hygiene, mental hygiene, various diseases, economics of health, statistics and general teaching material for use in the schools. The Department endeavors to meet such requests wherever possible.

Hospital Inspection Branch and Medical Inspector's Report of Operations

(E. A. Braithwaite, M.D., Inspector of Hospitals)

During the year I visited and inspected 80 of the approved hospitals in the Province. The total number of inspections was 94.

The total number of operations, taken from the weekly hospital operation reports, was 22,388, and the number of deaths following operations was 307.

The following is a list of operations performed and deaths which occurred in the approved, municipal and private hospitals during the year 1931:

GENERAL: 461 Abscess 461 Adenectomy 10 Adhesions 188 Albee's Operation 0 Amputation 278 Anus 0 Ankylosis 3	1 0 1 0 0 42 0	153 0 15 0 147 0 0 638	0 0 0 0 0 0 0	5 0 0 0 1	0 0 0 0
Adenectomy 10 Adhesions 188 Albee's Operation 0 Amputation 278 Anus 0 Ankylosis 3	0 1 0 1 0 0 42 0	0 15 0 147 0 0 638	0 0 0 0 0	0 0 0 1	0 0 0
Adhesions 188 Albee's Operation 0 Amputation 278 Anus 0 Ankylosis 3	1 0 1 0 0 42 0	$ \begin{array}{c} 15 \\ 0 \\ 147 \\ 0 \\ 0 \\ 638 \\ 0 \end{array} $	0 0 0 0	0 0 1	0
Albee's Operation 0 Amputation 278 Anus 0 Ankylosis 3	0 1 0 0 42 0	0 147 0 0 638	0 0 0	0	0
Amputation 278 Anus 0 Ankylosis 3	1 0 0 42 0 0	147 0 0 638 0	0 0	1	
Anus 0 Ankylosis 3	0 0 42 0 0	0 0 638 0	0		
Ankylosis 3	42 0 0	638 0	0		0
	42 0 0	638 0		0	ŏ
Appendectomy 3736	0	0		28	1
Arthroclasis 0			0	0	0
Arthrodesis 26		2	0	Ů.	ŏ
Arthroplasty 1	1	0	0	0	0
Aspiration	4	8	1	0	0
Bladder 0	0	0	0	0	0
Bone Graft 4	0	0	0	0	0
Bone Plating 10	0	5	0	0	0
Bowel	6	4	4	0	0
Bronchoscopy 3		0	0	0	0
Bunionectomy 7	0	2	0	0	0
Burns 2	0	0	0	0	0
Bursitis 2	0	0	0	0	0
Cancer		20	10	1	0
Carbuncle 20		5	0	0	0
Cauterization 24		1	0	0	0
Cecopexy9		0	0	0	0
Cholecystectomy	14	51	3	0	0
Circumcision 253		69	0	0	0
Colopexy	0	1	0	0	0
Colostomy		1	1	0	0
	0	$\begin{smallmatrix}0\\21\end{smallmatrix}$	0	0	0
		6	0	0	0
Cystectomy	0	19	0	0	0
		4	0	0	0
Cystotomy 50 Decompresia 4	1	0	0	. 0	0
Dilatation	1	0	0	0	0
Dislocation	î	10	0	0	0
Enterectomy	ô	3	ő	0	ő
Epididymotomy	ĭ	0	ő	ő	ő
Evulsion Nail	0	0	Ŏ	0	ŏ
Excision	0	23	0	0	o o
Examination 32	0	2	Õ	0	ŏ
Extraction Teeth	1	143	0	2	ŏ
Fasciotomy 3	0	0	0	0	0
Fistula 54	0	17	2	0	0
Foreign Body	0	0	0	0	0
Fracture		157	0	7	0
Fulguration9		0	0	0	0
Gastrectomy		0	0	0	0
Gastroenterostomy 67		10	3	0	0
Gastrostomy 2		0	0	0	0
Hammer Toe 8	0	3	0	0	0

	Approved H.	Deaths	Municipal H.	Deaths	Private H.	Deaths
Hare Lip	21	0	3	0	0	0
Hemorrhoidectomy	173	0	28	0	2	0
Hydrocele	$\frac{482}{37}$	8	$\begin{array}{c} 108 \\ 17 \end{array}$	3	3 1	0
Ileocolostomy	6	0	3	0	0	0
Incision	220	3	100	3	1	0
InjectionIntussusception	$\begin{array}{c} 31 \\ 2 \end{array}$	0	5 0	0	0	0
Jejunotomy	$1\overline{2}$	ő	Ö	0	ő	0
Laminectomy	2	1	1	0	0	0
Ligation Ligation	$\begin{array}{c} 165 \\ 20 \end{array}$	$\frac{10}{1}$	62 5	9	4	0
Lithotomy	3	Õ	0	0	0	0
Lobetomy	6	0	0	0	0	0
Manipulation	57 38	1 5	1 1	0	0	0
Nephrotomy	5	0	î	ŏ	ŏ	ő
Neurectomy	1	0	0	0	0	0
Orchidectomy Osteomyelitis	21 84	0 6	0 5	0	0	0
Osteoplasty	4	0	0	0	0	ő
Osteotomy	13	1	0	0	0	0
Peritonitis	19	9	5 0	5 0	0	0
PhlebectomyPlaster Cast	$\begin{smallmatrix} 3\\146\end{smallmatrix}$	0	21	0	0	0
Plastic	15	0	0	0	0	0
Pneumothorax	34	0	1	0	0	0
Programs	$\begin{array}{c} 16 \\ 22 \end{array}$	0	$\frac{1}{0}$	0	0	0
Proctoscopy Prostatectomy	92	11	8	0	0	0
Puncture	17	2	4	0	0	0
Pyloroplasty	$\begin{smallmatrix} 5\\207\end{smallmatrix}$	0 6	$\begin{smallmatrix} 0\\42\end{smallmatrix}$	$\frac{0}{2}$	0	0
Removal	115	6	52	0	0	ő
Resection	75	7	15	3	4	0
Sequestrectomy	28	1	$\frac{1}{0}$	0	0	0
SinusSkin Graft	1 38	0	3	0	0	0
Splenectomy	6	0	0	ő	Õ	0
Suturing	250	2	53	0	0	0
Sympathectomy	$0 \\ 1$	0	0	0	0	0
Synovectomy Tenoplasty	4	ő	ő	0	0	0
Tenotomy	10	0	0	0	0	0
Thoractomy	6	0 1	0 13	0	0	0
Thyroidectomy	$\begin{array}{c} 275 \\ 143 \end{array}$	1	10	0	0	ő
Tumor	177	1	40	1	0	0
Tuberculosis	41	2	8	0	0	0
Urethrotomy Varicocele	$\begin{array}{c} 6 \\ 22 \end{array}$	1 0	2	0	0	0
Vasectomy	6	0	$\bar{0}$	0	0	0
Wounds	168	7	68	0	0	0
ODGERRAL AND GVALARGOLOGICAL.						
OBSTETRICAL AND GYNAECOLOGICAL:						
Abortion	388 20	$\frac{2}{0}$	117	0	0	0
Adhesions	62	0	24	0	0	ő
Caesarean Section	46	6	10	1	0	0
Cauterization	47	0	3	0	0	0
Colporthaphy	21 0	0	1 1	0	0	0
Curettage	399	1	$6\overline{4}$	ő	ő	ŏ
Cysts	13	0	0	0	0	0
Dilatation Examination	$\frac{188}{29}$	0	$\begin{array}{c} 18 \\ 28 \end{array}$	0	0	0
Hysterectomy	181	8	14	ő	0	ő
Induction Labor	18	1	. 3	0	0	0
Insertion Radium	90	0	$\frac{0}{20}$	0	0	0
Oophorectomy	$\frac{132}{57}$	0	16	0	0	0
Ovariectomy	0	0	0	0	0	0
Perineorrhaphy	92	0	11	0	0	0
Retroversion Salpingectomy	$\frac{4}{208}$	$0 \\ 1$	0 17	0	0	0
Salpingo-oophorectomy	73	0	1	0	0	0
Sterilization	9	0	11	0	0	0
Supra-pubic Suspension	2	0	0	0	0	0
Trachelorrhaphy	11	0	2	0	0	0
Uterus	103	0	22	0	0	0

	Approved H.	Deaths	Municipal H.	Deaths	Private H.	Deaths
EYE, EAR, NOSE, THROAT:						
Abscess Adenoidectomy Antrum Cataract Cautery Cysts Dacryocystectomy Dilatation Enucleation Eye Esophagoscopy Ethmoidectomy Examination Excision Foreign Body Glaucoma Iridectomy Laryngoscopy Mastoidectomy Myomectomy Paracentesis Polypi Pterygium Submucous Resection Suturing Synectomy Tenotomy	19 74 51 84 14 9 5 5 3 3 1 8 6 6 2 50 1 87 0 25 38 4 80 26 23 80 26 23 80	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18 11 7 2 1 4 0 0 1 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Tonsillectomy	2462	1	428	0	4	0
Tracheotomy	23	0	6	0	0	ő
Turbinectomy	40	0	7	0	0	0
Tonsils and Adenoids	2403	Õ	373	1	10	0
Total number of operations in hospital Total number of deaths from operations Percentage					22,388 30' 1.5	7

In addition to the operations classified above the following operations were performed by the Travelling Clinic:

Tonsils and Adenoids	676
Circumcision	6
Other minor operations	63

Private Hospitals Division

(MARY E. CONLIN, R.N., Inspector)

Seventy-four private hospitals were licensed during the year 1931, nineteen of which were licensed as baby shelters. One hundred and twelve inspections were made during the year, and in addition four institutions were visited where babies are placed.

There has been a decided improvement in the condition of the baby shelters due to quarterly inspections being made. We have been endeavouring to keep the number of baby shelters within a well-defined limit.

Where it has been possible in connection with the private hospital work, in the districts I have visited, I have made an inspection of cases receiving free insulin through the Department of Health. In the latter part of this year, twenty-one inspections were made in the city of Edmonton.

While inspecting hospitals in the district north of Peace River, a week was spent in the Hines Creek district organizing the new nursing district of Worsley.

Provincial Laboratory

(Allan C. Rankin, C.M.G., M.D., D.P.H.) (Provincial Bacteriologist)

There were 57,245 examinations carried out during the time under consideration—an increase of 6,898 over the previous year.

The provincial analyst has been responsible for the chemical examination of samples of water and milk submitted. The cooperation of departments within the University has been of much assistance.

The following table indicates the nature and number of the examinations:

SHORT REPORT OF THE WORK PERFORMED IN THE PROVINCIAL LABORATORY DURING THE YEAR 1931

Sputum Diphtheria Typhoid F					• • • • • • • • • • • • • • • • • • • •			705 1,849 894	0.440
Waters Miscellaneous	Exam	inations			• • • • • • • • • • • • • • • • • • • •	•••••••		••••••	3,448 1,505 1,934 3,026
Mothers' Milk Medico-Legal									29
Dioods for the	Wassi	ermann	Test						$12 \\ 16,391$
Smears for the	Gon	ococcus	***********						3,553
Icterus Index Van Den Bergh	ı Dete	rminati	on						$\frac{132}{3,406}$
Pathological H	istolo	gical M	aterial .						6,609
Blood Smear E Chicken Blood	Exam	inations							81 16,427
Cattle Blood E	xamin	ations							539
Post-Mortem I Ascheim Zonde	sxamı ek Te	nations st	***************************************	************					112 41
Typhoid Vaccin	e (25	c.c. qua	antity) .						404
Autogenous Va B.C.G. Vaccine Poliomyelitis S	(10	c.c. qua	intity)		*				79 185 73
Increa	se in	numbei	of spec	cimens		,		6,898	57,245
Increa	se in	per cer					************	13.6%	
		3.7			BLE DIS	EASES			
	osi- tive	Nega- tive	Post Offices	Physi- tians		Sputum.	Diphth.	Typhoid Fever.	Total.
C4	110	F 0 F			Jan		352	21	433
Sputum	110	595	(j)	*****	Feb		273 173	22 17	$\frac{358}{252}$
					April	70	253	13	336
					May June		83 81	20 12	160 166
Diphtheria	77	1,772			July	65	78	626	679
					Aug Sept		136 177	63 32	251
					Oct	52	97	32	248 188
Typhoid Fever	73	821	123	274	Nov Dec		86 60	12 17	144 145
****	260	3,188	123	274		705	1,849	894	3,448

The following table shows the number of water, milk, special, and blood containers prepared and distributed during the year:

Water Containers	1,329
Special Containers	1,392
Blood Containers	12,085
Chicken Blood Containers	16,427

31,233

The following table shows the number of cubic centimeters of autogenous and other vaccines prepared and distributed during the year:

VACCINES AND SERUMS

Typhoid Vaccine	1.010
Autogenous Vaccine	1.975
B.C.G. Vaccine	1.850
Poliomyelitis Serum	1.095
	5,930

The following table gives the details of the bacteriological, bacteriological and chemical, and chemical examination of water performed throughout the year:

_	Transfer the delivery the year.	
	Number of samples of water examined bacteriologically and found fit for human consumption	866
	Number of samples of water examined bacteriologically and found unfit for human consumption	75
	Number of samples of water examined bacteriologically and chemically and found unfit for human consumption	135
	Number of samples of water examined bacteriologically and chemically and found fit for human consumption	778
	Number of samples of water examined chemically and found fit for human consumption	49
	Number of samples of water examined chemically and found unfit for human consumption	6
	Number of samples of ice examined bacteriologically and found fit for human consumption	24
	Number of samples of ice examined bacteriologically and found unfit for human consumption	1
	MILK EXAMINATIONS	1,934
	Number of samples of milk examined bacteriologically Number of samples of milk examined bacteriologically and chemically Number of samples of milk examined chemically	165
		1,505
	Number of samples of milk examined showing low butter fat content Number of pasteurized milk samples examined bacteriologically with	24
	bacterial count above 30,000	30
	bacterial count above 30,000	23 363 1,142

Pathological, Histological Material, etc.

During the year under consideration 6,609 specimens were examined, an increase of 441. This work is carried out under the direction of Dr. J. J. Ower in the Department of Pathology, and represents a very heavy and valuable routine in operative material. The diagnostic work is also very considerable and is of great value to the profession and public. This department, as a matter of fact, is responsible for much important work, and is carried on in a very capable manner with a small personnel.

$Medico ext{-}Legal\ Examinations.$

This work has included various examinations pertaining to criminal and other cases in the Province throughout the year, and was under the charge of the late Dr. Harold M. Vango, associate professor of medical jurisprudence in the University.

Waters.

There were 1,934 samples of water examined bacteriologically, bacteriologically and chemically, and chemically; and 1,329 water and milk containers were prepared and distributed during the year.

Milks.

One thousand five hundred and five samples of milk were examined bacteriologically, bacteriologically and chemically, and chemically, an increase of 140 samples.

Bloods for the Wassermann Test.

For the Wassermann test, 16,484 samples were received during the year. Of these specimens 93 were unsuitable for the test. Out of the 16,391 specimens examined, 2,577 proved positive. There were 4,598 bloods received from Calgary and south of Calgary, and 11,793 bloods received from north of Calgary, Edmonton and north of Edmonton. The increase in the number of specimens examined was 2,850, or 10%. Twenty-nine thousand nine hundred and four Wassermann and special blood containers were prepared and distributed.

Miscellaneous Examinations.

Three thousand and twenty-six miscellaneous examinations were made during the year.

Smears for the Gonococcus.

There were 3,553 examinations made during the period covered by this report, an increase of 649.

Chicken Blood Examinations.

There were 16,427 chicken blood examinations made for the diagnosis of bacillary white diarrhoea.

Cattle Blood Examinations.

Five hundred and thirty-nine cattle bloods were examined for the diagnosis of contagious abortion, an increase of 378.

Vaccines and Sera Prepared and Distributed.

Four thousand eight hundred and thirty-five cubic centimeters of vaccine were prepared. This includes typhoid vaccine, autogenous vaccine, etc. One thousand and ninety-five cubic centimeters of poliomyelitis convalescent serum was prepared.

Research Work.

Research work has continued and various publications were made.

Staff.

The death of Dr. Harold M. Vango removed a valuable member of the staff and a very acceptable confrere.

ESTIMATED COMMERCIAL WATTER IN	347377377	40.00		
ESTIMATED COMMERCIAL VALUE IF	MINIMUM	CHARGES	WERE	MADE
Sputum	705	\$ 1.00		\$ 705.00
Diphtheria	1,849	1.00		1,849.00
Typhoid Fever	894	1.00		894.00
waters	1,934	15.00		29,010.00
WIIKS	1,505	5.00		
Mothers' Milk	29	2.00		7,525.00
Miscellaneous Examinations	3.026	3.00		58.00
Medico-Legal Examinations	12			9,078.00
Bloods for the Wassermann Test	16,391	5.00		60.00
Smears for the Gonococcus Test		5.00		81,955.00
Pathological Histological Material	3,553	1.00		3,553.00
Icterus Index Determination	6,609	5.00		33.045.00
Van Dan Banda Determination	132	1.00		132.00
Van Den Bergh Determination	3,406	1.00		3,406.00
Blood Smear Examinations	81	2.00		162.00
Chicken Blood Examinations	16,427	.10		164.27
Cattle Blood Examinations	539	.20		
Ascheim Zondek Test	41	5.00		107.80
Typhoid Vaccine (25 c.c. quantity)	404	1.00		205.00
Autogenous Vaccine (25 c.c. quantity)	79			404.00
B.C.G. Vaccine (10 c.c. quantity)		10.00		790.00
Poliomyelitis Serum (15 c.c. quantity)	185	3.00		555.00
to c.e. quantity)	73	2.50		182.50
	57.133			Q172 040 FF

Post Mortems, Vaccines and Sera not included in total number of specimens. Increase in estimated value of work, \$16,829.07.

NOTE.—Again it is considered advisable to reduce some of the nominal charges, and for purposes of comparison in the future an additional reduced (\$37,821.50) commercial estimate is attached.

REVISED STATEMENT OF COMMERCIAL VALUE IF MINIMUM CHARGES WERE MADE

W HIGH M			
Sputum	705	\$ 1.00	\$ 705.00
Diphtheria	1.849	1.00	1,849.00
Typhoid Fever	894	1.00	894.00
	1.934	10.00	19,340.00
Waters	1,505	3.00	4.515.00
Milks	29	2.00	58.00
Mothers' Milk	3.026	3.00	9,078.00
Miscellaneous Examinations	12	5.00	60.00
Medico-Legal Examinations		3.50	57.368.50
Bloods for the Wassermann Test	16,391	1.00	3,553.00
Smears for the Gonococcus Test	3,553		132.00
Icterus Index Determination	132	1.00	3.406.00
Van Den Bergh Determination	3,406	1.00	
Pathological Histological Material	6,609	5.00	33,045.00
Blood Smear Examinations	81	2.00	162.00
Chicken Blood Examinations	16,427	.10	164.27
Cattle Blood Examinations	539	.20	107.80
Ascheim Zondek Test	41	5.00	205.00
Typhoid Vaccine (25 c.c. quantity)	404	1.00	404.00
Autogenous Vaccine (25 c.c. quantity)	79	10.00	790.00
B.C.G. Vaccine (10 c.c. quantity)	185	and the same	The Table
B.C.G. vaccine (10 c.c. quantity)	73	2.50	182.50
Poliomyelitis Serum (15 c.c. quantity)	10		
	57,133		\$136,019.07

SERUMS AND VACCINES DISTRIBUTED DURING THE YEAR 1931

SERUMS AND VACCINES DISTRIBUTED SCHOOL	
Smallpox, 10 points	25,300 points
Diphtheria Antitoxin:	+ FEH 000 */-
1,000 units	1,551,000 units
2,000 units	586,000 units
5.000 unist	335,000 units
20,000 units	10,180,000 units
Diphtheria Toxoid:	
1 person	2,936 persons
6 persons	2,508 persons
12 persons	3,044 persons
Schick Test, 25 persons	2,225 persons
Scarlet Fever Antitoxin:	
2 c.c. syringe	3,350 c.c.
15 c.c. syringe	705 c.c.
15 c.c. vial	2,760 c.c.
Scarlet Fever Toxin:	
1 person	314 persons
6 persons	1,014 persons
Dick Test 10 persons	940 persons
Anti-Pneumococcic Serum, 50 c.c. Type I	50 c.c.
Tetanus Serum:	
1 500 units	34,500 units
10 000 units	20,000 units
Anti-Meningitis Serum, 20 c.c. vial	2,020 c.c.
Pertussis P.D. & Co.:	
5 66	70 c.c.
20 c.c,	100 6.6.
Typhoid Vaccine	10,100 0.0.
Other Vaccines	1,975 0.0.
B C G Vaccine	1,800 6.6.
Poliomyelitis Serum	1,095 c.c.
L Ollowing Calono & Calono	

Public Health Nursing Division

(Kate S. Brighty, R.N., Superintendent)

Dr. Mary Percy, district physician, and Miss Olive B. Grant, public health nurse, resigned to be married.

Dr. Elizabeth Rodger, district physician serving the Kinuso district, returned to Scotland following an illness, and this service was subsequently discontinued.

A public health nurse serves in each of the following districts, viz.: Norma No. 515, with Vegreville as a centre; Marquis No. 157, with Milo as a centre; and Richdale No. 274, with Stanmore as a centre.

The routine work of school inspection, child welfare clinics and home visits have been conducted in these districts. Through health education, immunization has been encouraged, gaining a ready response from the people of the community. It has been made possible through the co-operation of the dental profession to provide dental services at a reduced rate to these municipalities, in many instances. Children with defective vision have also received attention from the Canadian National Institute for the Blind at the instigation of the public health nurses.

The public health nurse serving the Norma municipality has a fully equipped child welfare station and office in the new courthouse at Vegreville. In all of the three centres infant welfare work continues to be one of the major objectives.

The quiet and constructive work that is being accomplished by the public health nurse in municipal districts is evidenced by the confidence placed in her by the people of the community.

STATISTICAL REPORT					
First inspection Second inspection Classroom inspection Treatments Not vaccinated	1221 61 9	With defects Without defects Vaccinations Diphtheria toxoid treatments	779 16		
DEFECTIVE	CONDIT	IONS SUSPECTED			
Vision Hearing Adenoids	41	Tonsils Teeth Posture	508 987 14		
	MPTOMS	NOTED			
Eye conditions Enlarged thyroid glands Enlarged glands Tuberculosis Nervous symptoms Pediculosis	11 22 69 1 12 17	Ringworm Skin conditions Malnutrition Mental Orthopaedic Communicable diseases	1 47 94 5 5		
RES	ULTS O	BTAINED			
Glasses fitted Glasses refitted Tonsils removed Adenoids removed Dental treatments Surgical treatment Medical treatment Schoolroom talks	23 16 51 33 285 18 27 78	Home visits Demonstrations Interviews Child Welfare Clinics Attendance, Child Welfare Clinics Public lectures Attendance at lectures	485 3 81 73 505 8 265		

VISITING NURSE—ONE MUNICIPALITY

Calls made	387	Abortions	1
Office consultations	169	Pre-natal consultations	8
Dressings and treatments	225	Pre-natal visits	19
Medical cases	143	Child welfare visits	35
Surgical cases	65	Dental extractions	3
Obstetrical cases	3		

OUTLYING DISTRICTS

In the district of Worsley, on the Fort St. John Trail, north of Peace River, a new district nursing centre has been established. A comfortable cottage has been built for the nurse. She serves a large community of new settlers isolated from outside communication and medical services.

The nursing centre at Slave Lake was closed during the summer, temporarily, the entire district around Lesser Slave Lake being worked from the Kinuso centre.

Nine isolated districts in all are served—two by district physicians and seven by district nurses. These are as follows: Slave Lake, Kinuso, Worsley, Valley View, Pendryl, Peers, Jarvie, Notikewin and Wanham.

STATISTICAL REPORT Home visits 3,213 Pre-natal interviews 357 Office visits 2,179 Child welfare interviews 74 Dressings 1,162 Child welfare visits 192 Medical cases 1,544 Deaths (under 1 year) 12 Surgical cases 752 Deaths (over 1 year) 14 Obstetrical cases 162 Indigent cases sent to city 53 Abortions 23 Visits to Indian Reserves 87 Pre-natal visits 251 Dental extractions 153

CHILD WELFARE CLINICS

Provincial Child Welfare Clinic, 604 Civic Block, Edmonton

The attendance at the Edmonton Child Welfare Clinic has exceeded that of the previous year by 742. The total number of clinics held in 1931 was 102.

In order to relieve overcrowding, a clinic for the weighing of children was started on Wednesday afternoons. Only cases on the roll who do not need to see the doctor are admitted.

STATISTICA	L REPORT
Clinics held 102	Babies transferred to pre-school
Babies in attendance 4,797	clinic
Pre-school children	Pre-school children discharged 384
In attendance 5,981	Babies referred to family doctor 46
Clinics for weighing babies 15	Pre-school children referred to
Babies on the roll 1,965	family doctor 31
Pre-school children on the roll 874	Out-of-town cases 117
Babies admitted (new cases) 898	Deaths of babies under 1 year 13
Babies re-admitted 4	Deaths of babies in second year 3
Pre-school children admitted 217	Deaths of pre-school children 2
Pre-school children re-admitted 63	No. of home visits 5,884
Babies discharged 856	
To The Target of Man	Torne
DEFECTS	FOUND

Malnutrition	11	Seborrhoea	14
Rickets	34	Birthmarks	12
Intestinal Indigestion	86	Prurigo	1
Acidosis	1	Molluscum Epithelicle	1
Intertrigo	57	Icterus Neonatorum	4
Acute Colitis	2	Mucous Patches on Palate	1
Thrush	7	Umbilical Hernia	54
Stomatitis	6	Inguinal Hernia	8
Hypertonic	2	Moist Umbilicus	16
Impetigo	15	Granuloma of Umbilicus	16
Scabies	8	Mastitis	3
Eczema	62	Infected Umbilicus	1
Ringworm	1	Phimosis	98
Miliaria	14	Hypospadius	2
Dermatitis	1	Ammoniacal Diaper	14
Heat Rash	4	Rectal prolapse	1
Furunculosis	3	Hydrocele	6

DEFECTS FOUND-BABIES (Continued)

Blindness	1	Purpura Haemorrhagica 1
Urethral Ulcers	3	Haemorrhage from lip 1
Strabismus	4	Convulsions
Conjunctivitis	19	DPARTICON MINISTRA
Stye	$\frac{4}{16}$	Burns
Otitis Media	5	Injury to Foot
Geographical Tongue Tongue—tied	13	Flat Feet
Enlarged Tonsils	4	Contusions 1
Enlarged Adenoids	1	Congenital Malformation of Head 1
Enlarged Glands	5	Cyst 1
Infected Glands	1	Congenital Heart 1
Nasal Obstruction	2	Chest Condition
Acute Coryza	2	Cretin 1 Snuffles 1
Bronchitis	28	Snuffles
Capillary Bronchitis	5 1	Anorexia 4
Broncho-Pneumonia	î	Spina Bifida
Alimentary Anaemia	2	Hydrocephalic Idiot 1
Hematoma	3	Mongolian Idiocy 3
Hemotoma of Sterno-mastoid	1	Thyroid Deficiency 1
	PRE-SCH	OOL
Malnutrition	5	Congenital Heart Condition 4
Rickets	2	Enlarged Inguinal Gland 1
Intestinal Indigestion	$\bar{4}$	Systolic Murmur 1
Gastro-enteritis	1	Acroydnia 2
Stomatitis	3	Alopecia Areata 1
Ringworm	1	Diabetes Mellitus 1
Miliaria	2	Celiac Disease
Eczema	6	gavenine doite initial
Capillary Eczema	$\frac{1}{7}$	Wen
Scabies	8	Bruises
Furunculosis	1	Flat Feet
Intertrigo	2	Club Feet 1
Jaundice	1	Spastic Paralysis 1
Acute Catarrhal Jaundice	1	Paralysis of left hand and right leg 1
Multiple Infection	1	Right Facial Paralysis
Hives	1	Tumor of Suprarenal Cortex at
Otitis Media		Pineal
Haemorrhagic Conjunctivitis	1	Anorexia
Conjunctivitis	2	44 OT 1112 *********************************
Granular Eyelids	1 1	Pica
Stye		Tonsilitis
Enlarged Tonsils Enlarged Adenoids		Asthma
Enlarged Glands	20	Broncho-Pneumonia 1
Carious Teeth		Chronic Cough 1
Abscessed Teeth	1	Insect Bites 1
Tongue-tied	1	Burns 1
Geographical Tongue		Injury to Left Leg 1
Umbilical Hernia		Contusions
Inguinal Hernia		Warts
Enuresis		Thyroid Deficiency
Incontinency Night Terrors		Congenital Idiocy
Inguinal T.B. Adenitis		Mongolian Idiot 1
	07:	N D 7' D '77' C 7
		New Police Building, Calgary
Total number of clinics held	d in 1931	104
Highest attendance		108
		6,626
Twice a month the clinic	rooms	are used for the Mental Hygiene
Clinic, the Child Welfare	Nurse b	eing in attendance during these
clinics.		
Babies on roll		Babies discharged
Pre-school children		Pre-school children discharged 542
Number of visits		Deaths
Infants examined by doctor	2,010	Whooping Cough
doctor	586	Chickenpox 1
Babies admitted	605	Feeding cases:
Pre-school children admitted	230	Breast 1,213
Babies re-admitted	5	Bottle
Pre-school children re-admitted	69	Mixed 530
Babies transferred to pre-school	392	Other

	DEFEC	CTS FOUND	
	Pre-		Pre-
Inf	ant. school.	1	nfant. school.
Congenital Malformation Eyes Ears Tonsils Adenoids Glands Nose Throat Teeth Thrush Rickets	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Impetigo Ringworm Scabies Hernia Diarrhoea Phimosis Anaemia Furunculosis Congenital Syphilis Mental Deficiency Other conditions Referred to Family Physician	3 14 3 62 — 10 6 2 — 2 — 2 — 3 4 37 # 48
	DENT	CAL CLINIC	
No. of cases treated			272
Appointments not kept			46
Operations: Tonsils and Adenoids Remove Fore Treatments: Eye EarNose and Th	Adenoids	AND THROAT CLINIC From Ear	1 2 680 196 124

Provincial Child Welfare Clinic, Court House, Medicine Hat

The attendance at this clinic has shown an increase of 330 over the year 1930, the total attendance being 1,822. The nurse in charge at Medicine Hat also conducts child welfare clinics twice a month in Redcliff.

The chest clinics held periodically in Medicine Hat are organized by the provincial nurse with local assistance. During the year 173 patients were examined, the examinations being conducted by Dr. A. H. Baker and Dr. G. R. Davidson of the Central Alberta Sanatorium.

In November nursing duties in connection with the Provincial Social Hygiene Clinic in Medicine Hat were also assumed by the public health nurse.

	STATISTICAL	REPORT	
Number of clinics held	102	Out-of-town cases	99
Number of visits	1,200	Babies referred to physician	29
Babies in attendance	1,491	Pre-school children referred to	
Pre-school children		Family Physician	26
Number in attendance	1,822	Babies discharged	
Babies admitted	159	Pre-school children discharged	80
Pre-school children admitted	29	Deaths (babies)	3
Pre-school children re-admi-	tted 3	Deaths (pre-school)	2
Babies transferred to pre		Babies on roll	375
clinic		Pre-school children on roll	369
		207777	
	DEFECTS I		

			DELECT	IS FOUND		
	В	abies.	Pre-		Babies.	Pre- school.
	Malformation		<u>-</u>	Diarrhoea Scabies		1
Eyes		15	ĭ	Furunculosis	. 1	4
				Eczema Thrush	. 1	
			49	Teeth		-
Carious Te	eeth		$7\overline{3}$ 12	Impetigo Other conditions		1
	n	$\frac{35}{4}$	1	Other conditions	. 21	

TRAVELLING CHILD WELFARE CLINIC

This year the itinerary of the Travelling Child Welfare Clinic was the most extensive undertaken since this service was organized.

Total number of clinics 153	Total number of pre-school
Total number in attendance 3,691	children 2,103
Total number of babies	Total number without defects 1,585

PROVINCIAL TRAVELLING CLINIC

The Travelling Clinic commenced its summer itinerary June 3rd, and concluded September 16th. Twenty-one centres were visited, comprising 210 school districts.

As in other years, a survey of each district was made by a public health nurse, a preliminary health inspection given to each pupil, and school districts grouped to form a centre for the Travelling Clinic. In each district on the itinerary a public building was selected as a temporary hospital, and a local committee appointed to attend to details and assure community co-operation.

The staff of the Travelling Clinic was as follows: a surgeon in charge, one physician, two dentists, four nurses and a truck driver.

Warm appreciation of this service has been expressed by the people residing in the communities served.

At the conclusion of the itinerary of the Travelling Clinic a short itinerary for a dental clinic was arranged in some of the outlying districts, a dentist, anaesthetist and a nurse comprising the staff rendering this service.

	STATISTICA	L REPORT
	SURVEY B	
	First inspections 4,707 Not vaccinated 401 With defects 4,103	Vaccinations
	DEFECTIVE CONDI	TIONS SUSPECTED
	Vision 560 Hearing 27 Adenoids 611	Tonsils
	SYMPTO	OMS OF
	Malnutrition 1,103 Glands 1,313 Enlarged thyroid glands 454 Other eye conditions 56 Defective posture 658 Tuberculosis 2 Nervous symptoms 9 Pediculosis 93 Scabies 7	Ringworm 2 Other skin conditions 115 Communicable disease 1 Condition of gums 36 Cleft Palate 1 Heart condition 1 Mental defective 10 Orthopaedic 45
	Schoolroom talks 161	Glasses fitted 6
	TRAVELLIN	NG CLINIC
p.	Examined by physicians 3,179 Recommended for T. & A. Operations 1,525 Recommended for circumcision 16 Recommended for strippings 71 Recommended for minor operations 1 T. & A. Operations 676 Circumcisions 6 Strippings 62 Minor operations 1	Referred to family physician 26 Referred to Outdoor Clinic 12 Referred to Hospital 15 Prescriptions: 376 Miscellaneous 171 Anaesthetics - Anaesthetics for teeth only 270
	DENTAL	CLINIC 87
	Children examined	Fillings (number of teeth)

LECTURE COURSES ON HOME NURSING AND FIRST AID.

The itinerary for 1931 covered 89 points. Several cancellations were made due to rain and muddy roads which made it impossible for travelling.

Points visited	Home visits	62
	auty	- 4

The nurse found a greater interest taken in rural school conditions and in home and community health problems.

The effort the women have made to attend these lectures has been very encouraging, their gratitude and appreciation for the assistance rendered being most gratifying.

Addresses on various phases of health and health activities have been given to the public through the United Farm Women of Alberta, The Alberta Women's Institute, Farm Boys' and Girls' Week at the University of Alberta, Farm Women's Week at Olds and Vermilion, Calgary Child Welfare Week, and through the University of Alberta broadcasting station and other local groups.

First aid service was provided by this branch at the Edmonton Exhibition, with a public health nurse constantly in attendance.

Each of the centres served by a provincial nurse was visited and the records checked.

PRE-NATAL AND POST-NATAL LETTERS

The circularization of these letters is being continued and the letters are gaining in popularity among the women of Alberta. Compiled by the Canadian Council on Child and Family Welfare, they are distributed throughout the Province; 387 complete sets were sent out in 1931, and there are a total of 778 names on the current mailing list.

In co-operation with the Department of Education, an intensive school nursing service was carried on in the Turner Valley district for a period of four months, and this was productive of excellent results.

Many letters of appreciation have come from organizations and private individuals for the work of the Nursing Branch.

I wish to express my appreciation of the valuable assistance rendered the Child Welfare Clinics by Dr. Mildred Folinsbee Newell, Dr. F. J. Folinsbee, Dr. R. B. Leitch of Edmonton, Dr. Roach of Calgary, Dr. McLeod of Medicine Hat, and Dr. A. E. Ward of Redcliff.

Appreciation is also expressed for the close co-operation with our nursing service from the medical profession, the dental profession, women's organizations, teachers, the Red Cross Society, and welfare workers throughout the Province.

Hospitals Division

(W. B. MILNE, C.A., Secretary of the Department)

On December 31st, 1931, there were 91 approved hospitals in the Province.

The Killam General Hospital was opened as an approved hospital during the year.

The following two approved hospitals were closed: Arrowwood Community and Taber General.

The total grants for the year 1931 to hospitals and homes were \$436,941.

These hospitals, with the addition of the Central Alberta Sanatorium, had a total bed capacity of 4,495, divided as follows: General, 2,496; maternity, 625; infants, 527; paediatrics, 256; isolation, 290; tuberculosis, 301. It will be noted that a considerable increase in bed capacity is shown. This, however, is due to the inclusion of accommodation for infants which was not included in the statements of previous years.

On a population of 731,605 in 1931, we had one hospital bed for every 163 of the population, or 6.1 beds per thousand population; 67,010 patients were treated during the year, receiving 884,912 days' treatment. This means that hospital treatment was provided in 1931 to 9.1 per cent. of the population, or one in every 10.9 persons.

The average number of patients admitted daily was 183.6. The average number of days spent in hospital by each patient was 13.2, and if the Central Alberta Sanatorium, Junior Red Cross and S.C.R. patients were eliminated this would be reduced to an average of 11.1. The average number of patients in hospital daily was 2.424.4, or one in every 301.3 of our population. Each bed provided accommodation for an average of 14.9 patients during the year.

The nursing staff of these approved hospitals, excluding the Central Alberta Sanatorium, consisted of 436 graduates, 733 pupil nurses and 213 other attendants.

There were twelve nurses' training schools in the Province, and the number of nurses who were graduated during the year was 189. Twenty-three dietitians were employed.

During the year 8,482 maternity cases were cared for in these approved hospitals, maternity cases comprising 12.6 per cent. of the cases admitted. Living births were: Male 4,375, female 3,988, a total of 8,363. Multiple births totalled 82, and there were 262 stillborn. The maternal deaths reported were 28, this being a maternal death rate of .33 per cent. of total maternity cases admitted, and 3.5 per thousand living births.

The living births in Alberta in 1931 were 17,265. Therefore, 48.4 per cent. of the total living births took place in the Government approved hospitals.

In the hospitals reporting, 20,713 general anaesthetics were administered, and two deaths occurred from these.

Two hundred and thirty-eight autopsies were performed, and the infections developed in hospitals totalled 297, divided into: medical 86, surgical 177, obstetrical 34.

The number of communicable disease cases treated in hospital, excluding typhoid fever and tuberculosis was 1,019; typhoid cases numbered 88, and tuberculosis cases 731 (pulmonary 415, and other forms 316).

Among other cases treated in hospital there were 1,008 cardiac, 898 rheumatic, 446 goitre, 561 venereal and 798 malignant.

There were 262 deaths within ten days of surgical operations, and 385 deaths within forty-eight hours after admission. Communicable diseases accounted for 63 deaths.

The approved hospitals reported 114,308 laboratory examinations, and 23,263 X-ray examinations.

The total operating expenditure of approved hospitals for 1931 was \$2,712,572.77. This included administration of \$239,381.79, operating \$2,148,577.01, and maintenance \$324,613.97. The expenditure classed as capital is mostly repayments of principal on capital borrowing (\$157,776.41) and interest (\$250,507.94).

Earnings of these hospitals amounted to \$3,422,887.11. On referring to the details of the earnings, it will be noted that the Alberta Government grant does not agree with the total paid by the Province. This is accounted for by the fact that homes have not been included, and some of the hospitals have presented statements for their financial year which covers a different period from the calendar year.

Of the earnings shown \$427,800.50 was Alberta Government grant. Municipal and other grants, which include amounts paid by municipalities to take care of deficits, amounted to \$446,528.97. Patients' fees earned amounted to \$2,033,502.53; donations amounted to \$144,811.25, taxes for municipal hospital purposes amounted to \$289,893.50, and \$80,350.26 was classed as sundry earnings. To the taxes for municipal hospital purposes shown in the statement should be added \$17,000.00 requisitioned by the Lloydminster Hospital Board, but as this amount is not payable directly to the Lloydminster Hospital it was not included as an earning.

The average cost per patient per day was \$3.35; the average earnings per patient day was \$4.22. The average operating cost was divided as follows: administration 8.8%, operating 79.2%, maintenance 12%.

The statistical information given above has been obtained from financial and statistical statements which were requested from all approved hospitals for the year 1931, and although this is the third year that this information has been required, there are still some hospitals which appear to have some difficulty in completing the forms.

The following statements giving the details in connection with Alberta hospitals are submitted:

No. 1: Bed capacity, number of patients, number of days, nursing staff, etc.

No. 2: Nursing statistics, cases treated, anaesthetics, autopsies, etc.

No. 3: Expenses of administration, operating, maintenance and capital repayments.

No. 4: Hospital earnings.

No. 5: Costs per patient per day, earnings per patient per day, and percentage of administration, operating and maintenance.

MUNICIPAL HOSPITALS

Twenty-two municipal hospitals were in operation on December 31, 1931.

This does not include the sub-hospital at Craigmyle, as it is considered part of the hospital facilities of the Hanna district. The sub-hospital at Blackie in connection with the High River district was closed.

Additional territory was taken in during the year by the following districts: Bassano, Grande Prairie, Innisfail, Mannville, Peace River, Stettler, Vulcan and Wainwright.

Statistics of the municipal hospitals will be found with the other approved hospitals of the Province.

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		ANNUAL REPORT, 1931	П
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	Affiliation wi other hospital for nurses	Yes	•
	Nurses gradus during year		:
ær.	Nurses trainin	Yes	:
Staff	Other st-	001 H14071 0000 100 10000 10000 10040411	7
5.0	Pupil nurses	100 114 114 119 119 119 119	:
Nursin	Gradumten	4 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0
Treatment	Aver. No. of patients in hospital daily	18.27 11.15 17.89 18.29 8.39 8.39 8.39 10.39 10.39 10.20 10.	0.4
	Aver, days stay in hospital	111 112 113 113 113 113 128 138 138 138 138 138 138 138 13	10.07
Admitted for	Number of hospital days	6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,	>
	Female	8112	017
Patients	Male	2, 4172 1736 1737 1737 1737 1737 1737 1737 1737	707
	Bassinettes	2 : 2 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 :	:
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	Private	: 2	
Capacity	Total	8 9 4 8 9 4 1 4 8 5 1 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	201
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	Paediatrics	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	::
	stastal	10 1 10 1 10 1 10 1 10 1 10 1 10 10 10 1	:
	Maternity	4000 4000 4000 4000 1000 1000 1000 1000	:
	General	25	:
	Name of Hospital	Athabasca Municipal Barthead, St. Elizabeth Bassano Municipal Bentley Community Bentley, W.I. Bennyville, K. H. Prettie Bonnyville, St. Louis Calgary, General Calgary, Smallox Calgary, Smallox Calgary, Smallox Calgary, Sandlox Calgary, Sandlox Calgary, St. Mary's Cardston Municipal Castor, Rosary Cereal General Castor, Rosary Cereal General Coleman Minery Inion Consort, Municipal Coleman Minery St. Martin's Desmarais, St. Martin's Des	amionioni reordinori

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Staff	Other at-	:	18	:	: 6	7	-	70	1 00	-	:	en (N		1	1	7	: M	- c	2	:	4	, ,	_ 0	20 0	m _	: :		2	:	00 00
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ent	Aver, No. of patients in hospital daily		289.90	:	13.84	22.23	6.86	27.6	6.66	.26	31.70	11.54	37.81	10.48	2.33	22.83	21.30	10.47	20.00	8.63	51.66	76.10	1.14	20.69	08.40	06.7	70.08	29	6.62	10.10	1.25
r Treatm	Aver, days' stay in hospital	20.50	45.09	10.14	9.59	10.08	80.0	96.99	69.6	10.66	10.80	20.34	10.56	- ox	10.26	11.20	11.79	11 04	10.17	7.31	11.61	10.33	19.00	10.03	12.30	07.10	10.30	13.50	9.19	00.73	8.94
Admitted for	Number of hospital sysb	7.23	25,567	0, 10 10 10 10 10 10 10 10 10 10 10 10 10 1	5,053	8,116	2,506	1,917	2,432	96	11,572	4,212	13,802	1,00 K	852	8,336	7,775	3,825	916	3,153	8,85	27,808	418	7,007	06),1	2,000	25,579	108	2,418	3,688	1,026
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Capacity	Tuberculosis		20	:	: :	2	:	:	: :		4	7	27	:	: :	:	:	i	:	: :	20	:	:	:	N	:	: 4	-	. 2	:	- :
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	Name of Hospital	Edmonton University (Civilian)	University (University	Edson, St. John's	Elk Point Municipal	Empress Cottage	Fort Vermilion St Thorses	Galahad, St. Joseph's	Gleichen General	Grande Prairie Municipal	Grouard, St. Joseph's	Hanna Municipal	Hardisty St. Anne's	High Prairie Community	High River Municipal	Innisfail Municipal	Islay Municipal	Killam, General	Lacombe General	Lamont Public	Lethbridge, Galt	Lethbridge Isolation	Lethbridge, St. Michael's	Lloydminster Municipal	Macleod General	Medicine Hat General	Medicine Hat Isolation	Mundare, General	McLennan, Sacred Heart	Nanton, General



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	Grants	70					
Name of Hospital	Alberta	Municipal and others	Patients' Fees	Donations	Tax Requisitions	Sundry	Total Earnings
Athabasca, Municipal	\$ 3,335.00	4 1 999 10	\$ 9,027.93	6 7 0 0	\$ 8,827.88	\$ 32.54	\$ 21,223.35
Barrhead, St. Elizabeth	1,441.50		7,928.25	1,000			9.369.75
Bassano, Municipal	3,031.00		10,750.50		12,600.00	3,125.91	29,507.41
Bentley, Community	727.50	1.200.00	2,082.00	111.42			3,012.00
	1,517.50		1,646.78	5,520.00		279.53	8,963.81
Bonnyville, St. Louis	31.097.00	*85.315.20	134.255.31	3,523.35		1 913 94	11,763.35
Calgary, Isolation	1,656.00	*10,232.97	39				12,281.97
Calgary, Smallpox	5.068.50	1.125.00	9.065.90	1.605.62		1 584 00	18 449.02
Calgary, Holy Cross	19,466.00	4,000.00	153,643.67	278.73			177,388.40
Calgary, Junior Red Cross	9,821.00	***************************************	A 9 9 9 9 6 A 9	7		2,135.69	16,767.09
Cardston, Municipal	2,759.50		7,415.90		14.599.03	877.11	25,651.54
Castor, Rosary	2,341.00		11,365.03			4,674.50	18,380.53
Cereal, General	753.50	00000	3,763.41		* * * * * * * * * * * * * * * * * * * *		4,516.91
Cold Lake, John Neil	729.50	1,6	3,297.85	99.65	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	263.67	6,088.67
Coleman, Miners' Union	1,294.50		8,458.10				9,752.60
Consort, Municipal Coronation General	1 289 50		6,505.80	196.50	6,604.65	491.18	15,980.13
Daysland, Providence	1,131.00		5,946.40		* * * * * * * * * * * * * * * * * * * *	5,791.35	13,550.68
Desmarais, St. Martin's	250.00	2,142.00	77 17 7				2,392.00
Drumheller, Municipal	11,201.00		40,326.77	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30.140.00	1.918.05	83.585.82
	2,851.50			5,256.25		168.54	13,911.15
Edmonton, General Edmonton. Misericordia	19.098.00	8.000.000	127.256.37	36,667.00		5 147 50	196,253.75
			3,614.23	1,791.05		20:	7,688.28
	49,466.50	* 1	280,385.39			4,739.99	517,050.91
Edmonton, Isolation	5,186.50	4 ==	22,123.00				81,150.01
Edson, St. John's	2,526.50	2,826.75	12,321.52	146.00		450.22	18,270.99
Elk Point, Municipal	3,950.00		9,195.23	000	11,308.08	345.95	24,799.26
Fairview, W.I.	958.50	1,302.00	5,090.95	129.10			7.351.45
Fort Vermilion, St. Theresa	550.00		3,832.00				4,380.00
Calahau, ot. soseph s	1,010,000	* * * * * * * * *	4,112.41	3,776.70	:	87.00	9,192.11

No. 4—EARNINGS OF ALBERTA HOSPITALS, 1931—Continued

	Grants	nts					
Name of Hospital	Alberta Govt.	Municipal and others	Patients' Fees	Donations	Tax Requisitions	Sundry	Total Earnings
Gleichen, General	\$ 48.00	•	\$ 230.50	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	96 707 60	88 008	\$ 278.50
Grouard, St. Joseph's	579.50	\$ 4,506.20	1,64	1,750.0		0.000	8,476.70
Hanna, Municipal	6,901.00		20,863.70	~	29,340.11	2,583.07	62,353.88
y, St. Anne's	1,913.50		10,345.00	000 100 100 100		352.00	12,610.50
High River, Municipal	4,168.00		10,133.98		21,105.40	3,364.17	38,771.55
Innistail, Municipal	3,887.50		3,554.50	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11,558.00	30.00	
Jasper, Seton	1,078.50	2,500.00	10,008.73				14,187.23
Killam, General	495.00		2,151.85	2,270.15		104.60	4,917.00
Lamont, Public	9,610.50		55,553.29	,eo	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,137.50	71,168.58
Lethbridge, Galt	13,904.00	5,000.00	71,209.00			3,931.46	94,274.46
Lethbridge, Isolation	209.00	2,744.47	873.50			2 609 2	3,826.97
Lloydminster, Municipal	3,897.50	2,804.00	30,783.00	237.18	*	10.00	37,731.68
Macleod, General	1,333.00		*22,247.74				23,580.74
Mannville, Municipal	12,789.50	9.000.00	65.845.34	1.072.50	9,886.00	333.11	15,041.30
Medicine Hat, Isolation	54.00		90.40				144.40
Mundare, General	1,209.00		10 467 99	6,424.97		9 089 00	13,074.94
Nanton, General	513.00		5,516.50	٠		7,002.00	6,029.50
Nordegg, General	411.50	00000	2,406.00	•		5,511.85	8,329.35
Onoway, Municipal	792.50	00.062,2	2.422.25		6.532.00		9.746.75
Peace River, Municipal	2,771.00		11,480.25		11,213.98		26,319.77
Pincher Creek, St. Vincent's	1,385.00		8,362.55	LL J	15 167 19	315 00	15,547.55
	1,575.00		5,163.55	6.034.25	4		12,772.80
Red Deer, Municipal	2,318.50		14,949.65		1,385.81	2,222.14	20,876.10
Rimbey, St. Paul's St. Paul St. Theresa	1,023.00		14,017.20	6 160 60		188 91	
	1,852.50		5.212.72			359.90	
Stettler, Municipal	3,734.00		10,999.67	İ	16,169.34	984.91	31,887.92
Trochu St. Marv's	1.522.50	150.00	1,750.50	5 483 95			19,093.00
Vegreville, General	4,509.50		24,329.50			*	28,839.00

\$ 17,000.00

*Tax Requisitions: Lloydminster, Municipal (Alberta Board)

8,940.38 24,326.64 19,299.10 6,244.75 21,387.12 22,365.50 11,584.00 19,793.64	\$ 80,350.26 \$3,422,887.11
28.00 466.69 203.13 714.30 604.35 6,994.00 580.59	
11,700.00 9,525.00 11,188.96 9,216.38	\$289,893.50
3,355.41	\$144,811.35
3,197.47 7,009.97 7,409.45 7,486.31 7,486.31 7,853.60 1,932.50 14,179.00	\$446,528.97 \$2,033,502.53
612.00 700.00 750.00 5,682.14	\$446,528.97
1,747.50 3,787.50 2,561.00 1,031.00 2,107.50 2,833.50 1,657.50 2,602.00	\$427,800.50
Vegreville, R. M. Boswell Vermilon, Municipal Viking, Municipal Vilia, Our Ladys Vulcan, Municipal Wainwright, Municipal Wayne, General Wayne, General Westlock, Immaculata Wetaskiwin, General	

	Mill Rate. Mill Rate. Mill Rate.
	MWW HHHH
	to to
	charged charged charged
	is amount charged is amount charged
ω Ω	is
GRANT	General, is a 'Solation, is a 'Smallpox, is
*MUNICIPAL GRANTS	Calgary, Calgary, Calgary,

Edmonton, Royal Alexandra:		
1. City funds to make up deficit. 2. Contribution to sinking fund	\$ 94,981.15 25,178.82 62,299.06	00 to
Edmonton, Isolation: 1. City funds to make up deficit. 2. Contribution to sinking fund 3. Interest paid on debentures	\$ 40,201.70 4,838.81 8,800.00	0104,400.00
Edmonton, University: City of Edmonton University of Alberta	\$ 13,191.50 25,000.00	98,840.91
*ALBERTA GOVERNMENT GRANT:		00,101,00
Edmonton, University: General Grant Special Grant	\$ 54,692.50 20,000.00	р С С
*Patients' Fees: Macleod Genéral, includes revenue from incurable ward. *T.* Pouriettions.		74,092.50

No. 5—COSTS OF ALBERTA HOSPITALS, 1931

thabasca, Municipal anff, Mineral Springs arrhead, St. Elizabeth assano, Municipal entley, Community erwyn, W.I. connyville, K. H. Prettie connyville, St. Louis algary, General algary, Isolation	3.88 2.60 3.59	Capital	Adminis- tration	Operating	Maintenance	Earnings, including grants and contributions from Municipalities per patient per day
anff, Mineral Springs arrhead, St. Elizabeth assano, Municipal entley, Community erwyn, W.I. connyville, K. H. Prettie connyville, St. Louis algary, General	3.88 2.60 3.59				-	Earn gran butic Mun
anff, Mineral Springs arrhead, St. Elizabeth assano, Municipal entley, Community erwyn, W.I. connyville, K. H. Prettie connyville, St. Louis algary, General	3.88 2.60 3.59		9.8	82.9	7.3	\$ 3.18
assano, Municipal entley, Community erwyn, W.I. onnyville, K. H. Prettie onnyville, St. Louis algary, General	3.59		12.9	77.3	9.8	4.35
entley, Community erwyn, W.I. onnyville, K. H. Prettie onnyville, St. Louis algary, General		\$11.75	8.1	84.6	32.7 7.3	$\frac{3.25}{4.86}$
erwyn, W.I. connyville, K. H. Prettie connyville, St. Louis algary, General			4.9	94.8	.3	3.35
onnyville, St. Louisalgary, General	3.46		5.7	85.4	8.9	4.19
algary, General	2.88	1.00	4.9	80.8	14.3	2.95
		1.36	$\begin{bmatrix} 1.7 \\ 10.0 \end{bmatrix}$	85.8 76.0	$12.5 \\ 14.0$	4.01
		1.30	22.2	68.2	9.6	3.70
algary, S.A. Grace			6.3	82.0	11.6	1.82
algary, Holy Cross	5.29	.69	4.4	52.4	43.2	4.45
algary, Junior Red Crossamrose, St. Mary's		1.31	4.3	94.1 83.7	1.6	1.50 3.69
ardston, Municipal		1.01	6.9	89.5	3.6	4.64
astor, Rosary	3.50	.20	11.0	70.4	18.5	3.92
ereal, General				93.8	6.2	$\frac{2.99}{3.61}$
laresholm, Generalold Lake, John Neil	3.22 5.70		2.2 16.4	94.0	$\frac{3.8}{28.0}$	4.10
oleman, Miners' Union			5.5	88.0	6.5	3.78
onsort, Municipal	2.70	·	11.0	83.2	5.8	3.77
oronation, General		C A	5.4	93.2	7.0	4.47 5.99
Paysland, Providence Desmarais, St. Martin's		.64	2.4	98.1	1.7	2.29
oidsbury, General			5.8	89.8	4.4	4.80
rumheller, Municipal		.32	10.3	84.8	4.9	3.73
Idmonton, Beulah Home		.25	7.1	78.9 85.2	$14.0 \\ 10.3$	2.43 4.33
dmonton, Misericordia		.33	9.5	68.4	22.1	4.90
Edmonton, S.A. Grace	2.28		7.6	78.4	14.0	1.70
Edmonton, Royal Alexandra		1.31	$\begin{array}{c c} 11.2 \\ 16.7 \end{array}$	77.5 73.6	11.3	5.23 7.82
Idmonton, Isolation		.38	8.0	88.6	3.4	4.13
dson, St. John's	2.41	.92	5.8	76.3	17.9	3.61
Olk Point, Municipal		.30	9.1	84.9	6.0	3.05
Empress, Cottage			13.0	79.9 84.1	7.1	4.23 3.83
ort Vermilion, St. Theresa			1.6	91.9	6.5	1.69
alahad, St. Joseph's			6.8	72.9	20.3	3.77
leichen, General rande Prairie, Municipal		.79	$\begin{array}{c c} 6.0 \\ 13.0 \end{array}$	92.0 82.5	$\frac{2.0}{4.5}$	$ \begin{array}{c} 2.91 \\ 5.24 \end{array} $
rouard, St. Joseph's			11.8	74.9	13.3	2.02
Ianna, Municipal	2.73	.75	10.9	80.6	8.5	1
Ianna, Craigmyle-Sub		1.08	8.6	90.0 95.5	$\begin{array}{c c} 1.4 \\ 2.5 \end{array}$	3.20
Hardisty, St. Anne's		1.00	1.7	97.6	2.5	3.16
High River, Municipal	2.93	.65	7.0	87.7	5.3	4.65
nnisfail, Municipal		.87	13.4	82.8		4.08
slay, Municipalasper, Seton		.22	11.1	83.5 73.1	5.4	4.45
Killam, General			2.4	80.0	17.6	5.36
acombe, General			6.6	88.7	4.7	3.72
amont, Publicethbridge, Galt			12.8	75.7 85.4	11.5	3.77
ethbridge, Isolation		2.15	3.8	83.1	13.1	9.15
ethbridge, St. Michael's	3.84	5.33	15.0	74.7	10.3	5.83
Lloydminster, Municipal		5.4	10.0	86.4	3.6	2.69
Mannville, Municipal	1	.54	7.2 9.7	83.2 89.1	9.6	8.84 4.84
Medicine Hat, General	2.33		10.7	84.1	5.2	3.48
Medicine Hat, Isolation			1.3	95.0	3.7	1.33
Mundare, General		.69	3.9	$94.3 \\ 90.2$	7.8	5.40
Nanton, General	4.89		3.3	88.7	8.0	5.87
Nordegg, General	7.66		.8	96.2	3.0	10.12
Olds, General Onoway, Municipal		.28	8.8	88.5 87.5	3.8	4.71 6.14
Peace River, Municipal		.50	14.3	77.3	8.4	4.71
Pincher Creek, St. Vincent's	2.66		5.2	77.7	17.1	5.61
Provost, Municipal Radway, St. Joseph's	3.08	.62	11.5	84.0 82.9	4.5 9.3	4.59
Red Deer, Municipal	3.39	.68	9.4	85.0	5.6	4.05
Rimbey, St. Paul's St. Paul, St. Theresa		.42	5.3	87.7 73.7	7.0 22.1	2.49 3.23

No. 5—COSTS OF ALBERTA HOSPITALS, 1931—Continued

		er P per	atient day	Perce	ntage o	including contri— m ies per day	
Name of Hospital		of Capital and Reserves	Capital	Adminis- tration	Operating	Maintenance	Earnings, including grants and contributions from Municipalities per patient per day
Smoky Lake, Geo. McDougall	\$	2.86	\$ 2.11	3.7	90.0	6.3	\$ 2.00
Stettler, Municipal		2.78	.53	13.8	78.1	8.1	4.42
Taber, General		2.65			99.0	1.0	3.06
Frochu, St. Mary's		2.94	.63	8.8	78.0	13.2	3.95
Vegreville, General		2.03		3.3	86.9	9.8	3.20
Vegreville, R. M. Boswell		2.74		1.1	88.0	10.9	2.56
Vermilion, Municipal		2.27	.55	9.9	8.67	3.4	3.21
Viking, Municipal Vilna, Our Lady's		2.82	.57	12.9	83.3	3.8	3.77
Vulcan, Municipal	1	$2.86 \\ 3.75$	1.08	$\frac{10.8}{10.4}$	$70.9 \\ 82.9$	18.3	3.00
Wainwright, Municipal		2.36	.59	12.6	83.2	4.2	$\frac{5.07}{3.95}$
Wayne, General	4	2.51	.55	7.3	89.2	3.5	3.49
Westlock, Immaculata	- 4	3.34	.86	1.5	74.2	24.3	4.77
Wetaskiwin, General		3.24		3.8	90.0	6.2	5.07
	\$ 5	3.35		8.8	79.2	12.0	\$ 4.22

Charity and Relief

(W. B. MILNE, C.A., Supervisor)

During the year 1931 this Department gave the required relief in 1,125 cases.

Relief was accounted for Temporary relief Permanent relief Transportation Deportation	396 117 61	Medical accounts paid	331 387 12
Temporary maintenance: Salvation Army Hostel Macleod Hospital Calgary Salvation Army Gleichen Eventide Home	302	Bonnie Doon Home, Edmonton	46
	22	St. Joseph's Hospital, Edmonton	18
	6	Lacombe Home, Midnapore	11
	56	Providence Hospital, Daysland	4

The Alberta Provincial Police reported on 1,787 investigations made for and on behalf of the Department.

There were 136 cases referred to municipal authorities for their attention.

There were approximately 1,000 interviews in the office during the year.

Division of Social Hygiene

(HAROLD ORR, O.B.E., M.B., D.P.H., Director)

We have continued during the year to direct particular attention to the early detection of neurosyphilis. This we regard as important preventive work.

The cerebrospinal fluid of all syphilitic patients is examined between the sixth and ninth months of treatment. Patients in whose cerebrospinal fluid there are changes indicative of incipient neurosyphilis may be given adequate treatment at once, and, we believe, the disastrous advent of clinical neurosyphilis obviated. It is our policy to give the malaria pyrexia treatment to all such cases, and during the year twenty cases have been treated, without any deaths. Indeed, I would point out that the risk in the malaria treatment of asymptomatic neurosyphilis is practically nil, but of course increases in direct proportion to the degree of nerve tissue degeneration.

Neurosyphilitics, whether of the symptomatic or asymptomatic type, are given a course of neoarsphenamine and bismuth immediately following the malaria, and at the end of two months tryparasamide is substituted for the neoarsphenamine, and continued indefinitely.

During the year 326 cerebrospinal fluids were examined, and of these 45 were positive, thus indicating that the nervous system is affected in about 13.8% of our syphilities. In our Edmonton clinic alone we have 320 syphilities under treatment, which means about 40 cases of neurosyphilis. If these can be prevented from becoming institutional cases an enormous saving will eventually accrue to the Province.

Dr. Baragar and his staff at the Provincial Mental Hospital, Ponoka, have given generous assistance in this work, and practically all of the malaria pyrexia treatments have been given in that institution.

The following figures briefly indicate the work done in the various clinics during the year:

EDMONTON CLINIC, 9912 103rd Avenue

Number of Patients	. 655
Sexes of Patients: Male 48 Female 16	

CLASSIFICATION OF THEIR DISEASES

	Syphilis.	Gonorrhoea. Chancroid	d. Totals.
Male Female	214 106	272	486
Temale			169
Totals	320	335	655

Number and results of Wassermann tests: 3,042 tests, of which 743 were positive. Number and results of cerebrospinal fluid tests: 239 tests, of which 33 were positive.

		D 11 D		
CALGARY CLINIC, City Hall A			_	917
Sexes of Patients: Male			. 663	311.
Female			. 204	
CLASSIFICATION OF		ASES Gonorrhoea.	Chanavai	d Totala
Male Female	234 126	427 128	2	663 254
Totals	360	555	2	917
Number and results of Wassermann tests: 1 Number and results of cerebrospinal fluid				
MEDICINE HAT CLINI	C, Genera	l Hospital	l	
Number of Patients				36
CLASSIFICATION OF		CASES Gonorrhoea.	Chanavai	d Totala
Male Female	9 8	11 4	3 1	23 13
Totals	17	15	4	36
Number and results of Wassermann tests: 1				
Number and results of cerebrospinal fluid	tests: 1 test,	which was	negative	•
LETHBRIDGE CLIN	IC, Galt H	ospital		
Number of Patients				66
Female				
CLASSIFICATION OF				
Male	Syphilis. (25	Gonorrhoea. 28	Chancroi	d. Totals. 53
Female	10	3		13
Totals	35	31		66
Number and results of Wassermann tests: 5			_	e.
FORT SASKATCHEWAN G	,		ewan	
Number of Patients				152
CLASSIFICATION OF	THEIR DISE	ASES		
	Syphilis. (Gonorrhoea.	Chancroi	a. wooden
Male Female	$\begin{array}{c} 64 \\ 36 \end{array}$	24 28		88 64
Totals	100	5 <u>2</u>		152
Number and results of Wassermann tests: 1	,405 tests, of	which 201	were po	sitive.
LETHBRIDGE GA Number of Patients: Male				89
CLASSIFICATION OF				
Male		Gonorrhoéa.		
Number and results of Wassermann tests: 6	46 69 tests, of	43 which 62 w	ere posit	ive.
CASES REPORTED BY DOCT				
Male	Syphilis. (Gonorrhoea. 98	Chancroi	
Female	17	16		125 33
Totals	44	114		158
RECAPITU	LATION			
Male		Gonorrhoea.		
Female	619 303	$\begin{array}{c} 903 \\ 242 \end{array}$	5 1	1,527 546
Totals	922	1,145	6	2,073

Sanitary Engineering Division

(R. B. Owens, B.A., B.E., Provincial Sanitary Engineer)

The following is a detailed list of works for which Provincial Board of Health certificates have been issued, together with the estimated cost of each:

WATERWORKS

Blackie—Certificate No. 358/31, Air Lift Water system. Estimated Cost	5,000.00
Estimated Cost	25,000.00
Drumheller—Certificate No. 362/31, Waterworks System.	4,155.00
Edmonton—Certificate No. 352/31, Waterworks Extensions. Estimated Cost	61,300.00
Edmonton—Certificate No. 364/31, Waterworks Extensions. Estimated Cost	119,518.00
Gleichen—Certificate No. 346/31, Irrigation System. Estimated Cost	15,000.00
Grande Prairie—Certificate No. 357/31, Extensions to Waterworks System. Estimated Cost	7,000.00
Rocky Mountain House—Certificate No. 360/31, Waterworks System (water not for domestic consumption). Esti- mated Cost	12,397.00
SEWERAGE	
Calgary—Certificate No. 345/31, Sewer Extensions, Bylaw 2687. Estimated Cost\$	9,106.00
2687. Estimated Cost	124,591.00
Calgary—Certificate No. 353/31, Sewers, Bylaw 2719. Estimated Cost	995.00
Calgary—Certificate No. 355/31, Sewage Disposal Plant (3rd Unit, 1931). Cost	75,000.00
2766. Estimated Cost	17,061.00
Camrose—Certificate No. 347/31, Sewage Disposal Plant and Extensions. Estimated Cost	16,723.50
Edmonton—Certificate No. 343/31, Extension to storm water relief sewers. Estimated Cost	100,000.00
Edmonton—Certificate No. 348/31, Sewer extensions. Estimated Cost	20,750.00
Edmonton—Certificate No. 350/31, Lateral sewers catch basins and service construction, 1931. Estimated Cost	46,000.00
Edmonton—Certificate No. 351/31, Lateral sewers catch basins and service construction, 1930. Estimated Cost	55,256.56
Edmonton—Certificate No. 365/31, Minor sewer extensions. Estimated Cost	6,000.00
Edmonton—Certificate No. 366/31, winter relief sewer construction. Estimated Cost	44,300.00
Edmonton—Certificate No. 368/31, Sewer construction. Estimated Cost	49,000.00
Edmonton—Certificate No. 369/31, Sanitary relief sewer. Estimated Cost	70,000.00

HOSPITALS

Coleman—Certificate No. 354/31. Addition to sun porch. Coleman Miners' Hospital.

Plans and specifications submitted to the Provincial Board of Health for waterworks, sewerage and sewage disposal plants as required under Sections 10, 11, 12, 13, 14 and 15 of The Public Health Act, were duly examined, and where approval was given, certificates were issued.

Plans and specifications other than those aforesaid, but required by the Provincial Board of Health, were also examined, and the necessary action taken thereon.

Plans, specifications and proposals in connection with the sanitary engineering works submitted to the Public Utilities Commissioner were also examined and advice given.

Plans and specifications in connection with sanitary engineering works connected with hospitals under The Hospitals Act and Municipal Hospitals Act, were examined and advice given thereon.

Sanitary engineering works in connection with the institutions under the administration of the Public Works Department were visited, and advice given where necessary.

During the year reports on the analysis of water and ice were examined, and, where necessary, action in the matter of prohibiting the use of the supply was taken, or an investigation made for the purpose of advising as to a remedy.

Under the sanitation section of the Sanitary Engineering Branch of the Department, the following work was carried out:

There is now only one full-time health inspector employed by the Department. One inspector devotes one-third of his time to our inspections and the other two-thirds to inspections in the full-time health districts of High River and Red Deer. In addition, one inspector devotes part of his time to dealing with the office routine with respect to the system of supervision of purchasing adopted by the Department at the end of the year 1927.

Two hundred and thirty-two health districts were visited and inspected. Of this number 61 were inspected a second time.

Thirty-three lumber, tie, sawmill and mining camps were visited and inspected. Of this number 18 were inspected a second time.

One hundred and thirty-eight "Notices to Abate Nuisances" were issued and served by the inspectors, and 64 were ordered issued by representatives of the local health authorities.

Fifteen prosecutions were carried out, and convictions were obtained in each case; fines varying from \$5.00 to \$20.00 being imposed in addition to costs.

Detailed specifications in connection with the Glenmore waterworks, City of Calgary, were submitted, and received the necessary attention.

Sixty-one samples of water were collected for examination and analysis.

Twenty-eight samples of sewage were collected for examination and analysis.

Twenty-one sewage disposal plants were inspected.

Three hundred and seventy-six pounds of meat were seized and destroyed as unfit for food for human consumption.

Sixty-two complaints and requests for services of inspectors were received, and satisfactory adjustments were made in each case. Twenty-two requests for inspectors to assist in locating suitable locations for nuisance grounds, etc., and for further inspection of the district were made.

The services of the inspectors have been used in investigations of outbreaks of infectious and contagious disease.

Typical plans dealing with waterworks, sewage disposal, heating, ventilation, etc., have been prepared, printed and distributed. These are available to those who request information on these subjects.

The health and occupational therapy exhibit was again held during the Edmonton Exhibition.

The Public Health Regulations are being revised.

Dental Hygiene Division

(A. E. HEACOCK, L.D.S., D.D.S.)

During the year the various institutions under the Department received dental service. The Central Alberta Sanatorium was visited monthly except for a time in the summer. During this period Dr. McCaffrey gave part time service. Patients at the Provincial Mental Institute, Oliver and the Provincial Training School, Red Deer, were examined and necessary treatments carried out.

The Provincial Travelling Clinic operated from June 3rd to September 16th. During this period Dr. Gilchrist was again a member of the staff.

After the completion of the Travelling Clinic itinerary, a dental clinic was organized, and served a number of districts in the north country. This concluded the district services for the year. The following is a summary of the work of the Dental Clinic:

No.	of	children examined	680
No.	of	Children recommended for treatment	448
No.	of	children given treatment	224
No.	of	fillings	214
No.	of	extractions	429
		general anaesthetics	150

A summary of the services rendered in the various institutions is included in the reports of these institutions, and a report of the dental service in connection with the Travelling Clinic is included in the report of the Travelling Clinic.

Mental Health Division

(C. A. Baragar, M.D., Commissioner of Mental Institutions and Director of Mental Health)

Reports from the following institutions under my direction have been submitted by the respective superintendents or directors:

Psychopathic Ward, University Hospital. Provincial Mental Hospital, Ponoka.

Provincial Training School, Red Deer. Provincial Mental Institute, Oliver.

A report of the work of the mental hygiene clinics has also been submitted.

During the year important changes with respect to personnel have occurred. Unfortunately, through ill-health, the Province has lost the services of Dr. E. H. Cooke, who from 1916 carried the heavy responsibilities of the head of the Provincial Mental Hospital, Ponoka, and Dr. C. P. Fitzpatrick, who had filled not only the post of medical superintendent of the Provincial Mental Institute, Oliver, but also that of director of the mental hygiene clinics since their inception.

In July, Dr. W. J. McAlister, medical superintendent of the Provincial Training School, Red Deer, took charge of the Provincial Mental Institute as acting medical superintendent, and Dr. D. L. McCullough, assistant medical superintendent at the Provincial Mental Hospital, Ponoka, took charge of the Provincial Training School, Red Deer. In September, Dr. Geo. A. Davidson was appointed assistant medical superintendent at the Provincial Mental Hospital, Ponoka.

Miss Catherine Lynch, R.N., was appointed superintendent of nurses at Ponoka early in January. Miss E. M. Holmes, R.N., was appointed matron at the Provincial Training School in place of Miss G. T. Dahlbeck, who resigned.

During the year the problems of the dietary departments of the various institutions were thoroughly studied by Mr. E. W. Kolb, of Calgary, and as a result they had the benefit of his wide experience in catering.

On the 29th of January the psychopathic ward of the University Hospital was opened as a centre for the observation and treatment especially of early recoverable cases.

At the Provincial Mental Hospital, Ponoka, the most important events of the year have been the commencement of a reorganization of clinical services and social activities, of a post-graduate course in psychiatric nursing, as well as a definite progress in the development of grounds. Over-crowding on the women's service has become an urgent problem.

At the Provincial Mental Institute, Oliver, the early completion of a very fine kitchen-dining room unit will not only greatly

facilitate the catering problem, but will also release accommodation for 75 more male patients from Ponoka.

Red Deer is providing accommodation for another 18 patients, chiefly high-grade girls, but insufficient accommodation to provide for the large number of applicants is an urgent problem. Then again there is the high proportion of low-grade cases, cases for whom relatively little can be done in the matter of social reestablishment as a whole. Only in this way can a really effective mental health programme be carried through.

Eugenics Board for the Province of Alberta

(J. M. McEachran, M.A., P.H.D., Chairman)

Under the provisions of the statute known as The Sexual Sterilization Act, the work of the Eugenics Board of Alberta has been steadily increasing. The Sexual Sterilization Act was assented to March 21, 1928. The first operation authorized by the board was performed on May 10th, 1929. Up to the end of the year 1931, 134 cases, of which 32 were men and 102 were women, were passed by the board, and sterilization was authorized subject in certain cases to certain conditions. Of these, 113 cases had been operated upon—23 men and 90 women.

During the year 1932 up to the date of report, 51 cases, 17 men and 34 women, have been passed by the board. Of these 28 have been operated upon, 8 men and 20 women.

Of the female cases operated on, in only five cases has there been a subsequent history indicative of promiscuity, and in four of these promiscuity preceded operation. In only one case so far where the patient was regarded as sexually well behaved before operation has the question of immorality become a subsequent problem. In that case the undesirable influence of a promiscuous sister was regarded as the root of the trouble, and not the operation. On account of her conduct and her mental state she was returned to a provincial institution.

In only one case so far has venereal disease supervened after operation in a sterilized female. This individual was one of the five who were reported as problems on account of promiscuity, and was returned to hospital. Four of these five women, including the one referred to, had venereal disease before operation.

So far there have been no undesirable sequelae and no indication of any impairment of physical health attributable to the operation.

One patient, a female epileptic and mental defective, died nine months after the operation of acute pulmonary tuberculosis. This, so far as could be ascertained, had no relationship to the operation. In fact, six months after the operation she was reported by the social worker who saw her as in good physical health except for carious teeth. Otherwise there have been no deaths, and so far as can be ascertained patients are in good physical health.

While the follow-up system in Alberta is unavoidably imperfect, an effort is made to ensure a reasonable amount of supervision through parents, guardians, and the various social agencies.

The Act is working smoothly. No complaints have been received from any quarter, and it may be definitely stated that the work of the board is being regarded with increasing favor by those who have responsibilities in connection with the mental hospital and mental hygiene services, and also it is believed by many others who have social welfare responsibilities.

Psychopathic Ward, University of Alberta Hospital

(C. A. BARAGAR, M.D., Director)

The psychopathic ward was opened for the reception of patients January 29th, 1931, and provides accommodation for 16 patients in the south wing of the University Hospital.

While in certain respects the psychopathic ward is an integral part of the University Hospital, and by arrangement that hospital provides accommodation, nursing and other services, the admission, care and control of patients is provided for by The Mental Diseases Amendment Act, 1931, and is under the supervision of the Director, who is appointed by the Lieutenant-Governor in Council, and is responsible to the Minister of Health. It is therefore, in effect, a part of the mental hospitals service of the Province.

It is the primary function of the ward to provide for:

- (1) The care and treatment of early cases of mental disorder, especially those who, as result of such treatment, may be returned to the community recovered or sufficiently improved as to render admission to a provincial mental hospital unnecessary.
- (2) An intermediate stage for the observation and treatment of patients who may subsequently be transferred to one or other of the provincial institutions. Such a stage, it is thought, would serve to reassure relatives and friends as well as physicians of the undoubted necessity for more prolonged care and treatment than is provided by the psychopathic ward.
- (3) The observation and treatment of a group of border-line cases not ordinarily admissible to a mental hospital and yet for whom psychiatric treatment is desirable.
- (4) A centre for the examination in consultation of special out-patient cases referred by physicians, welfare organizations, courts, and other authorities.

The ward subserves as well a second function scarcely less important than the first, a work that has only just begun, but can be further extended. It provides psychiatric clinical instruction to a certain extent for the senior medical classes of the University of Alberta and for the nurses of the University Hospital. The senior class of nurses have thus the opportunity of a brief period of experience in the nursing of psychiatric cases.

As a result of this training of physicians and nurses, it is hoped to make possible not only the earlier diagnosis and treatment of mental illness, but also to carry out more effectively a progressive mental hygiene programme in the Province.

During the eleven months of 1931 that the ward has been in operation, 93 psychiatric patients were admitted. Of these 47 were men and 46 were women. It is noteworthy that of this group 78.5% were voluntary, that is, they of their own accord signed the request for admission and treatment, while only 12.9% were admitted by certificates, and only 2.15% by warrant. In addition, 6.45% were admitted on transfer from one of the provincial institutions.

Of those admitted, 47.3% were born in Canada, 25.8% in Great Britain or other British Dominions, 4.3% in the United States, and 22.5% in other countries. While the majority of patients came from the town, a fair number came from the country. The various occupations were fairly generally represented. Of the men, 57.45% were single and 36.17% married, while with respect to the women the reverse holds true, 26.09% being single and 58.70% married. This is in harmony with the usual finding in institutional psychiatric practice.

It will also be noted that the great majority of patients were referred by physicians, who are thus taking advantage of the facilities offered by the ward, but patients have also been referred by the Mental Hygiene Clinics, Department of Public Health, Department of Pensions and National Health, the Workmen's Compensation Board, the courts, and the Attorney-General's Department.

Of all the patients admitted, 69.69% were discharged, 28.92% were returned or transferred to one or other of the provincial institutions, and two patients died, while 10 remained in the ward at the end of the year.

Of the discharged, 19.28% were recovered or well on the way to recovery, 26.51% improved, and 22.9% unimproved. As without special authority the maximum period of treatment in the psychopathic ward is three months, and as many even of the recoverable conditions are of longer duration than that, the percentage of those discharged as recovered or much improved is smaller than would otherwise be the case.

With regard to diagnoses, the various psychiatric reaction types were represented, and it will be noted that 9.68% belonged to the organic group, 8.6% to the toxic group, and 49% to the psychogenic group, while 25.81% were not psychotic, but were suffering from some border-line condition or were admitted for observation.

It is interesting to note that of the female patients, in seven or 15.5%, the breakdown followed parturition. This does not mean at all that the mental breakdowns occur to an alarming extent in relation to maternity, but that the psychopathic ward is being made use of for this deserving group of cases. Fortunately in them the outlook is more favourable than in other cases of the same mental reaction type.

TABLE 1

SHOWING THE DISTRIBUTION OF THE AI	MISSIC	ONS JAN	. 29,	1931-DI	EC. 31	. 1931
Mode	M.	%	F.	%	T.	%
Voluntary Certificate 1	39	82.98	34	73.91	73	78.50
Certificate 2	3	$\frac{6.38}{2.13}$	9	19.57	12	12.90
Warrant	4	8.51	2	$\frac{2.17}{4.35}$	2	2.15 6.45
From Institutions				1,00		0.40
	47		46		93	
Prophylactic (non-psychiatric)	126		66			

TABLE 2

SHOWING THE MODE OF DISCHARGE OF PATIENTS ADMITTED, JAN. 29th, 1931-DEC. 31, 1931

	Male	%	Female	%		Total	%	
Recovered		10.87 6.52	3 5	$8.12 \\ 13.51$		8 .	9.64 9.64	
Improved	- 1	$ \begin{array}{r} \hline 17.39 \\ 19.57 \\ \hline 7 &36 \end{array} $	$ \begin{array}{c} $	21.63 35.14	56.77	$\frac{16}{22}$ $\frac{1}{2}$	19.28 26.51	46.79
UnimprovedObservation		3 28.26	$\frac{6}{0}$		16.22		22.90	
Total Discharged	3	0 65	.19 27		72.99	57		69.69
Returned to Institutions: Ponoka Red Deer Oliver	0		1 0 0					
Admitted to Institutions: Ponoka Red Deer Oliver	0		6 2 0		24.32	2.4		28.92
Deaths	1		.61 - 9 $.15 1 1$		2.70	2		2.17
TotalRemaining		6 1	37 9 9			$\begin{array}{c} -83\\10 \end{array}$		
Totals	4	.7	46			93	100	0.00%

TABLE 3

SHOWING THE DIAGNOSIS OF ADMISSIONS, JAN 29, 1931-DEC. 31, 1931

	Classification	M.	F.	т.	Pe	ercentage	
1 2	Traumatic psychoses	••••]	4.00		
3	Senile psychoses	2	2	4	4.30		
4	General paralysis	3		3	3.23		
5	Psychoses with cerebral syphilis						
7	Psychoses with brain tumor	1		1	1.07		
8	Psychoses with other brain or nervous disease	1		1	1.07		
	uisease	1			1.07		
	Total Organic Psychoses			9		9.68	
9	Alcoholic psychoses	3	1	4			
				_		4.00	
10	Psychoses due to drugs and other			4		4.30	
10	exogenous toxins						
12	Psychoses with other somatic disease	1	3	4			
	Total			4		4.30	10.00
13	Manic-depressive psychoses:						18.28
	(a) Manic type	3	3	6			
	(b) Depressive type		1	1			
	(c) Other types	1	• • • •	1			
					8.60		
14	Involutional Melancholia	3	3	6	0.00		
				6	6.45		
15	Dementia Praecox:					15.05	
	(a) Simple	1	2	3			
	(b) Hebephrenic	1		1			
	(c) Catatonic	5	11	16			
	(d) Paranoid	5	3	8			
				28		30.11	
16	Paranoid and paranoid conditions	3	1	4		30.11	
				_			
	Total Functional Psychoses			4		4.30	
	Total Functional Fsychoses						49.46
17	Epileptic psychoses	1		1	1.07		
18	Psychoneuroses and neuroses:				1.01		
	(a) Hysterical type	1	4	5			
	(b) Psychasthenic type (anxiety and obsessive forms)	1		1			
	(c) Neurasthenic type	1	1	1 2			
	(d) Other types	2	1	3			
				11	11.83		

19 20 21 22	Psychoses with psychopathic personality Psychoses with mental deficiency Undiagnosed psychoses Without psychoses: (a) Epilepsy without psychoses (b) Alcoholism without psychoses (c) Drug addiction without psychoses (d) Psychopathic personality without psychoses (e) Mental deficiency without psychoses (f) Other conditions	1 1 2 5	 3 1 3 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1.07 3.23 1.07	100.00	100.00
	Total all Groups			10			100.00
	Prophylactic cases (non-psychiatric)	126	66	192			

TABLE 4

Senile psychoses Senile psychoses General paralysis Psychoses with cerebral arteriosclerosis Psychoses with brain tumor Psychoses with other brain or nervous diseases Psychoses with other somatic disease Psychoses with other somatic disease Involution melancholia Dementia praecox: (a) Manic depressive type (b) Depressive type (c) Other types (c) Other types (d) Peranoia and paranoid conditions Epileptic psychoses Psychomeuroses and neuroses: (a) Faranoia and paranoid conditions Epileptic psychoses (d) Other types (e) Neurasthenic (c) Neurasthenic (d) Cherrythes Psychoses with psychopathic personality Psychoses with mental deficiency Without psychoses (c) Drug addiction without psychoses (d) Psychopathic personality without Psychoses (d) Psychopathic personality without Psychoses (d) Psychopathic personality without Psychoses (d) Psychopathic personality without Psychoses (d) Psychopathic personality without Psychoses (d) Psychopathic personality without Psychoses (d) Psychopathic personality without Psychoses (d) Psychopathic personality without Psychoses
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TABLE 5

SHOWING	THE	RESIDENCE	OF THE	PATIENTS	ADMITTED.
		JAN. 29, 193	1-DEC.	31, 1931	,

	,		
Residence Calgary	Male	Female	Total
Edmonton	25	2 22	6 47
Other towns	8	14	22
Rural	10	8	18
Totals	47	4.6	93

TABLE 5A

SHOWING BY WHOM PATIENTS WERE REFERRED

Referred by	Male	Female	Total
Physicians Mental Hygiene Clinics Department of Public Health Dept. of Pensions and National Health Workmen's Compensation Board Attorney General's Department Courts Provincial Institutions	33 2 1 1 1 1 4 4	38 3 1 1 1 2	71 5 2 1 1 2 5
Totals	47	$\frac{2}{46}$	93

TABLE 6

SHOWING PSYCHOSES IN RELATIONSHIP TO CHILDBIRTH

Post Partum Breakdown	Female		Total
Within one week—Dementia Praecox: (c) Catatonic (d) Paranoid	2		
Reaction depression	2		
		5	
Within one month—Dementia Praecox: (c) Catatonic (d) Paranoid	1		
(4) = 4.44.044	1	2	
Previous breakdown had occurred in relation to childbirth	2	4	
P. M. A. Carrier and C. Carrier and		2	
Patient pregnant—no relation to breakdown	1	1	
			10

TABLE 7

SHOWING THE NATIVITY OF THE PATIENTS ADMITTED, JAN. 29, 1931–DEC. 31, 1931

Birthplace	Male	Female	Total	%
Alberta	5	10	15	16.13
British Columbia		1	1	1.07
Manitoba	****	4	4	4.30
Nova Scotia	1		1	1.07
Ontario	8	9	17	18.28
Prince Edward Island	2	· ·	2	2.15
Quebec	1	1	2	2.15
Saskatchewan	1	1	2	2.15
Dadhavelie Hall	 18	26	— 44	
Britain and other British Dominions:	10	20	44	
England	11	6	17	18.28
Ireland	2		2	2.15
Scotland	2	2	4	4.30
India	ī		1	1.07
	_ 16		24	25.80
	- 10	0	24	25.80
United States of America	3	1	4	4.30
Other Countries:	3	1	- 4	4.30
Denmark		1	1	1.07
Finland	1		1	1.07
Norway	1		1	1.07
Sweden		1	1	1.07
Germany	1	1	2	2.15
Austria	2	1	3	3.23
Galicia	1		1	1.07
Poland	2	3	5	5.38
Ukrainia		2	2	2.15
Russia	1	1	2	2.15
Syria		1	1	1.07
China	1		1	1.07
	- 10	11	- 21	22.55
Total	47	46	93	100.00

TABLE 8

SHOWING THE OCCUPATION OF THE PATIENTS ADMITTED, JAN. 29, 1931-DEC. 31, 1931

Occupation.	Male.	Female.	Total.	Occupation.	Male.	Female.	Total.
Bank Clerk	1		1	Live Stock Dealer	1		1
	1	****	î	Maid		4	4
Blacksmith	1	• • • • •	1	Nil	5	6	11
Butcher	1	2	3	Nurse		1	1
Clerk	1	_	1	Painter	-		1
Clothier	1	••••	1	Relief		****	2
Coal Dealer	2	****	2	Salesman	_		2
Contractor	1	****	1	School Inspector			1
Cook	1	****	1	School Teacher		1	1
Druggist	1	****	1	Shipper			1
Engineer	11	• • • •	11	Stenographer		2	2
Farmer		****	1	Storekeeper			1
Farm Help	1	• • • •	1	University Student			1
Fireman	1	3.0	30	Omversity bradent			
Housewife	^		90	Totals	47	46	93
Janitor	2	• • • •	6	100015	. 1	- 0	
Laborer	6	****	О				

TABLE 9

SHOWING THE MARITAL CONDITION AND AGE OF PATIENTS ADMITTED, JAN. 29, 1931-DEC. 31, 1931

					- ,							
Age	Sin	gle	Mari	ried	Widow	ed	Sepa	rated	Divo	rced		
	M.	F.	M.	F.	М.	F.	M.	F.	Μ.	F.	Tot	. %
10-15	1			••••							1	1.07
16-20	4	5		2							11	11.83
21-25	4	4		1	****			1	****		10	10.75
26-30	4	3	••••	5	****	1	• • • •	. ****	• • • • •		$\begin{array}{c} 13 \\ 12 \end{array}$	13.98 12.90
31-35	2	****	1	9 5	****	****	••••	****	****		11	11.83
36-40 41-45	5 4		2	1	1	1			2		11	11.83
$41-45 \dots \\ 46-50 \dots$	4		5	1				1		****	7	7.53
51-55	1		5		****						6	6.45
56-60	2		2	1	****	1	• • • •	1	****		7	7.53
61-65	• • • •		1	1	****	1	• • • •	****	••••		3	$\frac{3.23}{1.07}$
66-70	****	****	****	1	****			****			· -	1.01
Total	27	12	17	27	1	4	0	3	2	0		
%	57.45	26.09	36.17	58.70	2.13	8.70	0	6.52	4.26	0		
///	41.9		47.3		5.38%	6		3.23%	2.1	5%	10	0.00%

TABLE 10

SHOWING THE RELIGION OF PATIENTS ADMITTED, JAN. 29, 1931-DEC. 31, 1931

Denomination	Male.	Female.	Total.
Anglican	7	10	17
Baptist	1	****	1
Christian Science	1	****	1
Greek Catholic	3	2	5
Greek Orthodox	1		1
Greek Lutheran	****	1	1
Jewish	1	1	2
Lutheran	1	Ð 1	1
Moravian	****	1	1
Orthodox	****	1	1
Plymouth Brethren	6	6	12
Protestant	11	4	15
Roman Catholic	13	10	23
United Church	1	3	4
Unitarian	****	1	1
Unknown	1	••••	1
Totals	47	46	93

Mental Hygiene Clinics

It will be remembered that under the able and enthusiastic direction of Dr. C. P. Fitzpatrick, medical superintendent of the Provincial Mental Institute, Oliver, and of Mr. Stuart Jaffary, psychologist and social worker, the first mental hygiene clinic in the Province was held in Edmonton in August, 1929. This was followed by a second in Calgary in October of the same year, and a third in Lethbridge in November, 1930.

The work of the clinics for the early part of 1931 was under the same direction, but unfortunately, through ill-health, Dr. Fitzpatrick severed his connection with the service in July, and in September Mr. Jaffary was granted a year's leave of absence to accept a fellowship in the University of Chicago. Dr. Fitzpatrick's place was taken by Dr. C. A. Baragar until October, when Dr. George A. Davidson, assistant medical superintendent at the Provincial Mental Hospital, Ponoka, took over the direction of the clinics in Calgary and Lethbridge except for a quarterly visit from the Commissioner. In Edmonton during the latter part of the year the clinic has had the assistance of Dr. W. J. McAlister.

Mr. Jaffary's place has been very ably filled by Mr. E. J. Kibblewhite, who had previously acted in a part-time capacity as social worker with the clinic in Edmonton. Miss Agnes Starkie has very satisfactorily taken Mr. Kibblewhite's place in Edmonton.

The Edmonton Mental Hygiene Clinic is held every Tuesday afternoon from 2 to 5 p.m. in the out-patient department of the University Hospital, at 9912 103rd Avenue. The work has been greatly facilitated by the courtesy and co-operation of Miss Young, the nurse in charge, and her staff of workers. Dr. H. E. Smith, of the Department of Philisophy of the University of Alberta, has worked in co-operation with both clinic and schools. His assistance has proved an asset of inestimable value.

The Calgary Clinic is held in the baby clinic quarters of the Police Building fortnightly on Thursday. Here Miss Lavell and Miss Craig, nurses of the Public Health Department, have given unfailing assistance and support.

The Lethbridge Clinic takes place every fourth week on Friday, at the Nursing Mission, except during the summer vacation and the Christmas season. No report of this clinic would be complete without reference to Miss Tilley, who is in charge of the Mission, and whose courtesy, organizing genius and intimate knowledge of the community have proved of the utmost value.

ROUTINE WORK

As will be seen from the accompanying tables there has been a steady increase in the work of the clinics since inception. The new cases have increased from 52 in 1929—a part year—to 142 in 1930 and 354 in 1931, while the cases dealt with as follow-ups, either

at the clinic or by the social worker in the field have risen from 50 in 1930 to 331 in 1931.

Patients visiting the clinic receive a physical (especially neurological) and mental examination, including a psychometric where indicated, and appropriate recommendations are made. For examination for the correction of physical disabilities the patient is referred to his own local physician. For problems arising out of a mental or social mal-adjustment the patient himself, or the parent or guardian, or the referring agency, is advised as to how the case may be dealt with. Interviews with parents or guardians are sought whenever possible, as it is highly desirable to win their confidence and secure their intelligent and sympathetic co-operation in subsequent treatment.

Many different agencies have co-operated in referring cases, as will be seen by Table 4. The large number of school cases in Edmonton is due in a large part to the interest and co-operation of Professor H. E. Smith. Otherwise the chief referring agencies are the Department of Child Welfare, the Juvenile Courts, parents and guardians, doctors and health departments. The interest of these men and women in the welfare of those mentally or socially handicapped is encouraging.

CLASSIFICATION

Table 5 presents a classification of the various problems which constituted the reason for reference to the clinic. Twenty, or 4.9%, were of the pre-school age; 307, or 75.8%, were of the school age; and 78, or 19.3%, were adults; 194 were males and 160 females. Mental defect with or without other problems consistuted 37% of the cases. Personality disturbances, delinquency or other behavior disorders accounted for 226, or 55.8% of the cases; epilepsy for 12, or 2.96%; and medical conditions 51, or 12.6%, of the cases. As Mr. Kibblewhite suggested in his report, the age period from 6 to 15 would appear to be the dangerous one for boys, accounting for 75% of the cases, while for girls there is a shifting of the critical period up to the age of 20, but with a more even distribution than with the boys.

RECOMMENDATIONS

Table 6 presents the nature of the recommendations made. Often more than one recommendation was made. In only 34 was institutional treatment suggested, and in 32 no definite recommendation was made. In this connection it may be stated that the greatest obstacle and the most discouraging feature of the work has been the lack of facilities for dealing with the cases presented. The training school is filled to capacity, and with so long a waiting list that only the more urgent cases can be admitted. These cases, so frequently low-grade, crowd out the more hopeful higher grades. Supervised hostels for girls, farm colonies and vocational schools for boys, and even a list of good homes to which appropriate cases could be sent for supervision and training, are greatly needed. In a new country, and particularly at a time of stress, one cannot expect to suddenly acquire all such facilities, but they constitute goals towards which we may work.

It will be noted that 39 cases were recommended for sterilization. Many of these were presented at the quarterly board meetings.

A very interesting group of cases was a series of six presented at the Lethbridge Clinic—not for any behavior problem, but for advice as to choice of vocation and proper guidance through the 'teen years. Whether advice of practical value was given or not, it indicated intelligent and thoughtful parents, and one could predict success in their efforts.

Though the economic situation has prevented active extension of the work of the clinic, it has been so encouraging and has met with such sympathetic co-operation, that an effort should be made to carry it to other parts of the Province.

TABLE No. 1 SUMMARY OF CASES PRESENTED AND FOLLOW-UP REPORTS FOR THE YEARS 1929-31

	1929	1930		1931		Total		
Clinic Edmonton	Cases 31 21	New Cases 112 113 17	Follow Ups 1 49	New Cases 201 95 58	Follow Ups 127 151 53	New Cases 344 288 75	Follow Ups 128 200 53	
Sub-totals	52	142	50	354	332	647	381	
Totals		1	92	6	85	1,0	28	

TABLE No. 2

AGE	AND	SEX	CLASSIFICATION

	Edmonton				Percentage
Age	M. F. T.	M. F. T.	M. F. T.	M. F. T.	Ma F. T.
0- 5 years		4 5 9	2 3 5	10 13 23	5.2 8.1 6.5
6-10 years		16 4 20	2 4 6	61 32 93	31.4 20.0 26.3
11-15 years				85 45 130	43.8 28.1 36.7
16-20 years	10 12 22	5 15 20	6 5 11	21 32 53	10.8 20.0 14.9
21-25 years	4 4	5 5	2 2	2 9 11	1.0 5.6 3.0
26-30 years	3 5 8	**** **** ****	1 1	3 6 9	1.5 3.8 2.5
31 years	5 18 13	4 5 9	3 10 13	12 23 35	6.2 14.4 10.0

TABLE No. 3

CLASSIFICATION ACCORDING TO INTELLIGENCE QUOTIENT

		Ed	mon:	ton	Ca	lgar	У	Let	hbrid	lge	7	Cotal	1
I.Q.		M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
-25						4			1	1		5	5
				18	3	5	8	1	6	7	11	22	33
51 - 60				13									
	***************************************					15	25	6	1	7	51	42	93
71 - 75		12	9	21)						,		
								_					
	Totals	42	37	79	13	24	37	7	8	15	62	69	131

the new cases:
1.41% had an I.Q. of 25 or less.
9.32% had an I.Q. of between 26 and 50.
26.27% had an I.Q. of between 50 and 75.
and 37% had an I.Q. of 75 or less.

TABLE No. 4

AGENCIES REFERRING CASES

Agency	Edmonton	Calgary	Lethbridge	Total
Department of Child Welfare	17	15		32
Children's Aid Relief Department (City)		12		12
Juvenile Courts	9	8	1.0	27
Other Courts and Police	2		3	5
City Schools	107	1.0	2	119
Parents and Guardians	10	16	10	36
Homes: Kiwanis	9			0.0
		1.0	****	10
Mount View	****	12	••••	12
Woods' Christian Home	****	3		3
Salvation Army	2	1		3
Local Council of Women	****	****	3	3
U. F. W. A		****	3	3
Civic Relief Department	6		•	6
	11		11	25
City Doctors		3	1.1	25
Other Clinics	11	****		11
Nursing Mission	****		6	6
City Health Department	4			4
Provincial Health Department	8	1.0	1	19
Other Agencies	5	5	g g	19
Other rigeneres	0	U	3	1.0
PD 1 1	0.01	0.5	F 0	0 = 1
Totals	201	95	58	354

TABLE No. 5 CLASSIFICATION OF CASES

CLASSIFICATION	ON OF CA	SES		
Classification	Edmonton	Calgary	Lethbridge	Total
Pre-school age: For examination, no trouble	2	5		7
Discipline or conduct problems without defect		2 2	1	3 7
Mental defect Mental defect with epilepsy		2 2 — 1	1 1 3	3 20
School age: Vocational guidance only, no defect	30	•	6	36
Mental defect	55	8 17	5 2 2	41 74 17
Personality defect	62	14 10	8	84 31
Backwardness without defect Epilepsy	3	5 3	2	10
Nervous, excitable, with physical condition Medical care	$\frac{1}{2}$		4	5 3
Adults:	— 212	6	4 — 31	— 307
Mental defect		5 2	3	15 13
Mental defect with sex delinquency Mental defect with epilepsy	2	1 2		3
Delinquency without defect	••••		2	2 2
Psychotic or prepsychotic		9	8 1	32 2
Medical		<u>1</u> 2	$\frac{4}{}$ 21	9 78
Totals	255	- 5	55	405

TABLE No. 6 CHIEF RECOMMENDATIONS AS TO TREATMENT

CHIEF RECOMMENDATIO	NO AD IU	I IVISA I MII	714 1	
	Edmonton	Calgary	Lethbridge	Total
Continuation of present home of institu-				
tional treatment	21	21	5	47
Change in home discipline and treatment	14	15	13	42
Change in school discipline	46	2		48
Continue school, but with vocational				
emphasis	3	****	2	5
Change in study methods	1			1
Advanced academic or professional training			2	2
Training in self-discipline	4		****	4
More organized social life: Y.M.C.A.,				
Y.W.C.A., Scouts, etc.	1	5	5	11
Placement in good homes	13	4	****	17
Close supervision	18	11	6	35
Medical treatment, including attention of				
specialists	14	8	17	39
Admission to special classes	12	8		20
Admission to Provincial Training School	6	11		17
Admission to Provincial Mental Hospital	6	5	4	15
Admission to Industrial School	2			2
Deportation	4	1	****	2 5
Other recommendations	9	4		13
No definite recommendation	28		4	32
		_		
Totals	206	95	58	359

Provincial Mental Hospital, Ponoka

(C. A. Baragar, M.D., Acting Medical Superintendent)

The movement of patients is set forth in Table 1. At the beginning of the year there were 1,103 patients in residence—600 male and 503 female. At the close of the year there were 1,195 patients—672 male and 523 female, a net increase of 92, or 8.43%.

The admissions were 388 as compared with 389 of the preceding year. Of these, 324, or 83.5%, were first admissions so far as this Province is concerned, and 62, or 16%, were re-admissions. In addition some 26 patients were returned to the hospital from elopement, leave of absence or general hospitals.

Of the admissions 67, or 17.27%, were by voluntary application: 50, or 12.89%, by medical certificate, and 248, or 63.94%, by warrant. The great increase in the number of voluntary admissions from 9% in 1930 to 17.27% in 1931 is accounted for by the large number (33) of cases of neurosyphilis without psychosis admitted for malarial treatment.

Of the admissions 155, or 40% were Canadian born; 78, or 20%, were native of Great Britain or the other British Dominions, and 155, or 40%, were foreign born, including 64, or 16.5%, who originated from the United States.

With regard to the diagnoses of patients admitted during the year, there has been a distinct increase in the number of those suffering from mental disturbances associated with old age, and an increase in the number of general paralytics, as well as a sharp increase in the number of non-psychotic neurosyphilitics.

A total of 1,520 patients were treated within the twelve months. During the year 224 patients were discharged, 3 were transferred to other institutions, 27 were deported, and 60 died, totalling altogether 314. The discharge rate as distinct from transfers, deportations and deaths was 57.73% of the total admission rate.

The recovery rate based on the admissions for the year—less those "without psychosis"—was for males 18.5%, for females 39.3%, and for both sexes combined 25.7%.

For the ten-year period—1922 to 1931—the mean recovery rate for males has been 26.85%, for female 35.73%, and for both sexes combined 30.46%. It is interesting to note that according to this the recovery rate for women is 33% more favourable than for men.

The death rate based on the total number under treatment and observation was for males 4.5%, for females 3.21%, and for both sexes 3.95%. This, considering the increase in senile cases, is exceedingly low, and is the third lowest in the history of the hospital. Over a twenty-year period the average death rate for men has been 6.05%, for women 4.43%, and for both sexes 5.46%. Here again it is interesting to note that the prognosis with respect to life is nearly 27% more favourable for women than for men.

An analysis of the deaths shows that infection of various sorts constitute the major group of causes (33.33%), and that among these respiratory infections, especially of the lungs (30%), predominate. Tuberculosis alone was responsible for 10% of the deaths. Typhoid fever unfortunately accounts for three of the deaths. Senile conditions, apart from the infections, featured as the main cause in 13.33%, general paresis in 5%, and cardiac conditions in 11.67%. It is a matter of deep regret that three patients succeeded in committing suicide. One patient is believed to have died as a result of an accidental injury to the head while riding on a train following elopement, and one died by drowning while in an epileptic seizure.

ACCIDENTS

In any moderately-sized community accidents occur, and in an institution housing so many patients close together, some of whom are old and irritable and some impulsive, one might expect many serious accidents. As a matter of fact, there have been few. Constant vigilance and tact upon the part of the nursing and attendant staff is the price that must be paid for this. On the men's side there were two fractures of limbs, a fracture of the skull in a fall from a train, and a drowning during an epileptic seizure, as referred to above. On the women's side there were five fractures and a severe laceration.

GENERAL HEALTH

In general, the health of both patients and staff has been good. Unfortunately a small epidemic of typhoid fever, involving 11 cases, including one nurse, occurred in the women's wards. The source of this has not yet been determined. An investigation revealed a number of patients with a positive widals. Of these the stools and urine were repeatedly examined, and one carrier discovered. Isolation of that carrier did not, however, stop the occasional occurrence of further cases. Subsequently both female staff and patients were inoculated, but even this failed to absolutely check the incidence of cases.

All members of the staff are given a careful physical examination shortly after appointment.

STAFF

On August 15th, Dr. E. H. Cooke, who had been medical superintendent since 1916, resigned, and the writer was appointed acting superintendent until a new permanent appointment could be made.

On September 15th, Dr. Geo. A. Davidson, formerly senior assistant physician in charge of the reception service at the Brandon Mental Hospital, was appointed assistant superintendent in place of Dr. D. L. McCullough, who had been promoted to acting medical superintendent of the Provincial Training School, Red Deer.

Dr. R. R. MacLean, who has been absent on post-graduate work in Boston, London and Zurich, is expected to return to the service as senior assistant physician early in the new year.

Dr. William Lyall Valens, who resigned on May 26th to undertake post-graduate work in Boston, was re-appointed December

7th, and was transferred to the Provincial Mental Institute, Oliver, on December 31st.

Dr. E. G. Simmonds was appointed temporary pathologist September 26th.

Dr. Ivar Lefsrud was appointed July 1, 1931, and on October 1st was transferred to the Provincial Mental Institute, Oliver.

Mr. W. T. Watt filled the temporary appointment of student interne during the summer months.

Mr. Stuart Jaffary, part-time social worker, was granted leave of absence for post-graduate work in Chicago as from October 1st, and his place was taken by Mr. E. J. Kibblewhite.

Miss C. N. Jackson resigned September 21st to pursue advanced work in nursing at the University of Alberta, and her place was taken by Miss Selma Erickson.

In view of the size of the patient population of the hospital and the large annual admission rate, the number of medical officers is considerably below the standard regarded as desirable. Medical clerical assistance is also inadequate if records are to be kept up to date. For the sake of economy, so urgent at the present time, every effort is being made to carry through without additional help.

CLINICAL WORK AND REORGANIZATION

On account of the large admission rate, routine, physical and psychiatric examinations, medical care of infirmary cases, ward rounds and reviews for purposes of discharge, parole, or other reasons have made heavy demands on the time of the medical staff.

Medical staff conferences were reorganized and set for 8:30 a.m. Tuesdays and Thursdays, and for 1:15 p.m. Wednesdays and Fridays, with a view to having all new cases thoroughly worked up and presented to the medical staff as a group as soon after admission as practicable.

The mode of admission was changed. A special admission room was established off Female Ward 7, with an admission bell calling the nurse on duty there, thus obviating the delays that so frequently occurred when admissions took place at the main office. With this change arrangements were made for the personal interview and preliminary examination of each patient by a physician at the time of admission.

The ward arrangement was reorganized to some extent so as to permit of greater classification of patients on admission, for the assembling of physically ill patients in special infirmary wards, and for the more effective classification of all patients on the chronic wards of the hospital.

To facilitate the work of the medical officers and to stress the importance of their clinical work and their responsibility for direction and control of treatment, their offices were decentralized. Formerly they were grouped in the administration section. Now they have their offices on the wards in close proximity to the patients, especially of the reception services.

With the appointment of a pathologist, a more thorough laboratory investigation of cases should now be possible.

The use of the malarial treatment as a prophylactic measure in cases of early neurosyphilis, that is, before any mental symptoms

had developed, was inaugurated at the suggestion of and in collaboration with Dr. Harold Orr and his co-workers of the Social Hygiene Division. These patients are now admitted by voluntary application, are inoculated, carried through the series of malarial rigors, and as soon after the termination of the malaria as possible are returned to the provincial clinics for the rest of their treatment. The following is a synopsis of the malarial treatment during the year:

 General paresis
 19 cases

 Tabo-paresis
 11 "

 Cerebral syphilis
 2 "

 Tabes dorsalis
 6 "

 Asymptomatic neurosyphilis
 23 "

Since his appointment Dr. Geo. A. Davidson has been taking charge of the Mental Hygiene Clinics at Calgary and Lethbridge, which occur fortnightly and monthly respectively.

DENTAL CLINIC

The dental work under the direction of Dr. S. M. Snedden has been carried along very successfully throughout the year. The value of this work can scarcely be over-estimated.

Summary of the work:

Full upper and lower dentures	70	Prophylaxis	36
Partial upper dentures		Fillings	140
Partial lower dentures	6	Gold inlays	5
Rebasing dentures	7	X-rayed	32
Relining dentures	7	General anaesthetics	3
Repaired dentures	29	Extractions	925
Scalings	152	Examination and treatments1	,103
Treatments	204	Repaired bridge steel facings	1

Hydrotherapy

Extensive use of the hydrotherapy equipment has been made, some fourteen continuous baths on the men's wards and eight on the women's wards being in frequent and almost continuous operation. This has been supplemented by packs and electric cabinets.

OCCUPATIONAL THERAPY

Formal occupational therapy has been carried on throughout the year. This work has, however, been handicapped by limitation of accommodation and equipment. Some occupational work is being done on the wards as well. There are, however, great possibilities for extension of occupational activities, both of the purely therapeutic and of the industrial form. Properly applied under competent psychiatric and technical direction, it is the most important single therapeutic agent we have outside the influence of personal contacts and relationships. It must be remembered, however, that industrial occupation is a two-edged weapon. The intentional or unintentional injection of an element of exploitation might do much harm. It is important, therefore, that the objectives of both personal and direct institutional benefit be kept prominently in mind in all occupational activities.

SOCIAL SERVICE

The hospital social worker devotes most of his time to the work of the Mental Hygiene clinics, part of it to field reports with re-

spect to patients in the hospital, and part of it doing psychometric examinations for the medical staff. Owing, however, to the great area of the Province and the scattered state of its population, effective social work is here faced with many difficulties.

TRAINING SCHOOL

The work of training both nurses and attendants inaugurated in the fall of 1930 proceeded throughout the balance of the term, and was resumed again in the fall. In the spring 10 young women and 39 attendants completed the first year of their respective courses, and in October another class of 22 nurses and one of 22 men commenced the study course.

The importance of this training cannot be over-estimated. The intelligent and sympathetic nursing care of mental patients is dependent on such training even more, if possible, than in general nursing. It was vitally important that it be commenced without delay. It has entailed much additional labour on the part of medical and senior nursing staff, but that contribution has been made in generous measure.

Post-Graduate Work

In January a course of lectures in psychiatry was commenced for a group of general hospital graduates on the staff. Of these, 12 successfully completed the examinations and 11 received certificates covering a period of six months' lectures and experience. In October a second course was commenced for another group of 12 nurses. This course included a small series of clinics as well. While this also involves additional work, it is regarded as a contribution to nursing education, and thus indirectly to the general good.

LIBRARIES

Both general and medical libraries are inadequate and out-ofdate for an institution of the size and importance of this. On accounts of its isolation much more consideration must be given to its library needs than for an institution situated near a large centre.

Religious Services

Religious services are held every Sunday, denominational ministers from Ponoka and Wetaskiwin taking charge in rotation. In addition, pastoral work and special services are attended to by the same ministers. The interest and labours of these goods friends of the hospital are much appreciated.

RECREATION AND ENTERTAINMENT

Throughout the year a weekly picture show is an event of importance. Owing, however, to the general use of the "talkie," it will probably become increasingly difficult to get good silent pictures.

Patients' dances were held fortnightly throughout the season, and were patronized by a large number of patients. By gradually getting away from the stereotyped hospital clothing for patients on such occasions, it is hoped to improve the general appearance of these functions and increase the enjoyment of all.

Once again owing to our isolation entertainments are not so frequent as one might wish. We have, however, to thank the Oliver troupe of players and our own staff and their friends for a few such enjoyable functions.

The patients and staff sports field day was held on August 27th, and was favoured by a large turn-out of patients, staff, and a num-

ber of interested friends from Ponoka.

The open-air skating rink was overhauled and put into shape, and contributed greatly to the pleasure of both patients and staff.

On the evening of December 23rd a Christmas tree was held for patients. The distribution of presents was preceded by a presentation of Christmas carols sung by a volunteer hospital choir and illustrated by a series of tableaux well staged by members of the staff.

The hospital football team under the direction of Mr. John Spinks and Mr. Mitchell, who were captains, captured four trophies—the Red Deer Challenge Cup, the Lacombe Challenge Cup, the Ponoka Challenge Cup, and the Tip Top Tailors Cup. As many of the games were played on the hospital grounds, patients as well as staff were able to enjoy them as spectators.

A series of enjoyable staff dances took place during the autumn, and more were planned for the balance of the season. The most important staff social event of the year, however, was the "At Home" held in the recreation hall on the evening of December 29th. The first part of the programme was a Christmas tree, games and later supper for the children, and afterwards a dance and supper for the grown-ups. Every effort was put forth to make it possible for every member of the staff and their families to be present. Its success was assured by the large number who were there.

The whole aim has been to so mobilize the social assets and facilities of the hospital as to increase the happiness of both staff and patients and promote a spirit of co-operation.

VISITORS

Many visitors have come to the hospital to see friends who were patients here. In general, these visits have been encouraged, and notwithstanding the heavy demands on the time of physicians an effort has been made to have personal interviews with them, and thus engender a spirit of confidence in the work of the hospital as well as to gain outside information regarding the patient.

Official visitors, professional, departmental and otherwise, have

come to the hospital. Their interest is always welcome.

ACCOMMODATION—ALTERATIONS

Notwithstanding recent additions in the way of new buildings, it seems impossible to overtake the state of overcrowding, and to provide adequately for occupational and recreational activities. Lack of accommodation is a particularly urgent problem on the women's side of the hospital.

Certain alterations have been carried out during the year. Others are desirable, particularly to provide more lavatory and toilet accommodation on Male Ward 4, and with respect to breaking up

one of the dormitories in the women's reception building to provide a little more privacy for the convalescent patient.

DEPARTMENTAL ACTIVITIES

Laundry.

With increasing demands the laundry is fast outgrowing its accommodation and equipment. It is taxed to the limit of its capacity. During the year 1,308,427 pieces were put through, or a monthly average of over 125,000.

Tailor Shop.

This is one of the busiest and steadiest departments of the hospital, and not only does a large amount of useful work, but provides occupation for a relatively large group of patients.

Summary of work:

V			
Blue uniforms	61	Smocks	59
Blue pants	56	Cooks' caps	18
Blue patient's suit	1	Cooks' coats	47
Corduroy coats	408	Cooks' pants	45
Corduroy pants	914	Attendants' coats	66
Shirts	1,153	Rubber sheets	343
Sheets	2,235	Rubber aprons	7
Nightgowns	489	Kitchen aprons	108
Nightshirts	206	Bath hammocks	38
Pillow cases	834	Bath covers	21
Recovered mattresses	115	Straight jackets	11
Pillow ticks	217	Restraint suits	2
Strong blankets	6	Milk wagon covers	1
Towels	908	Draw sheets	77
Table cloths	33	Store cloth blankets	28

Occupational Carpenter Shop.

By the occupational carpenter shop, repairs have been done to almost innumerable beds, blocks, brushes, etc., also repairs to buildings, laying of tiles, building fences, manufacture of articles for the occupational therapy department, etc.

Sewing Room.

Summary of work:

Petticoats	676	Nightgowns	410
Uniforms		Belts	
Aprons		Caps	
Bibs	307	Gingham dresses	716
Uniform repairs	140	Strong dresses	216
Bandages	41	Rubber sheets	140
Shrouds	61	Collars	13
Bathrobes	51	Table cloths	77
Restraint dresses	40	Serviettes	267
Doctors' gowns	18	Screen fittings	9
Pillow cases		Draw sheets	13
Towels	1,445	Patients' dresses	94

Stores.

In this department increasing demands have outgrown accommodation.

Kitchens and Dining Rooms.

With the increase in patient population and staff, the work here has outstripped facilities and space. The serving of over 4,000 meals per day is no small problem. The kitchen is unduly crowded and the vegetable room badly placed and unsanitary. Radical alterations are required. Notwithstanding this handicap, the dietitian and chef and their staff are doing remarkably fine work.

Plans for instituting the cafeteria system in patients' dining rooms are under way.

Garden and Grounds.

Under the general direction of Mr. Alex. Paton, provincial gardener, extensive recreation grounds for patients have been laid out and are taking shape to the south and west of the men's division of the institution. Very fine rock borders have been constructed in front of the main building.

The gardener has attained commendable success in providing the hospital, especially the wards, with an uninterrupted supply of foliage and flowering plants and cut flowers. Also a supply of garden vegetables has been produced for general consumption.

Farm.

A complete report of farm activities will be submitted under separate cover. The farm is an integral and important part of the institution. As such it provides open air occupation of excellent type for male patients, and as a result of their activities they benefit not only in general mental and physical health, but indirectly in a material way by the provision of a large supply of milk, eggs, pork and field vegetables. By some minor changes the patient accommodation at the farm colony building has been increased from 40 to 56, permitting advantage to be taken of farm occupation for a greater number of patients.

TABLE No. 1
MOVEMENT OF PATIENT POPULATION DURING 1931

	M.	F.	Total	M.	F.	Total
In residence, Jan. 1, 1931	600	503	1.103			
On leave of absence or otherwise absent		1	1	600	504	1,104
Admissions during year:						
(a) First admissions	219	105	324			
	35	27	62			
(b) Re-admissions	99			054	1 9 4	388
(c) Transfers from other hospitals	1 / 2	2	2	254	134	
(d) Returns	12	16	28	12	16	28
Total received during year				266	150	416
Total on books during year	13		1	866	654	1,520
Discharged during year:						
(a) As recovered	39	44	83			
	45	27	72			OF
(b) As improved					******	******
(c) As unimproved	6	18	24		******	
(d) As without psychosis	30	15	45		*******	
(e) Transferred to other hospitals	1	2	3			
(f) Deported to other countries	24	3	27			
(g) Deaths	39	21	60			
Total separations during year	48			184	130	314
	672	523	1,195			
In residence at end of year		1				
On leave of absence or otherwise absent	10	1	11			
Total patients at end of year		******		682	524	1,196

TABLE No. 2

SHOWING THE PSYCHOSES IN THOSE ADMITTED DURING 1931

Psychoses	Male	Female	e Total
1 Traumatic psychoses		1	1
2 Senile psychoses		7	16
3 Psychoses with cerebral arteriosclerosis		3	29
4 General Paralysis		4	27
		_	2
5 Psychoses with cerebral syphilis			
6 Psychoses with Huntington's Chorea		1	1
7 Psychoses with brain tumor		1	3
(a) Chronic encephalitis	2		2
(b) Hydrocephalus			1
(c) Disseminated sclerosis			1
(d) Sub-acute combined			1
9 Alcoholic psychoses	4	2	6
10 Psychoses due to drugs and other exogenous toxing			1
11 Psychoses with pellagra			
12 Psychoses with other somatic diseases:			••••
(a) Post-infectious psychosis		2	2
			1
(b) Exhaustion delirium		1	
(c) Septicaemia			1
(d) Diabetes	1	****	. 1
13 Manic-depressive psychoses:			
(a) Manic type		10	21
(b) Depressive type	6	16	22
(c) Mixed			1
14 Involutional melancholia		5	8
15 Dementia Praecox (Schizophrenia):			
(a) Paranoid type	28	9	37
(b) Catatonic type		22	61
(c) Hebephrenic type		5	12
(d) Simple type		2	5
(e) Undefined type			1
16 Paranoia and paranoid conditions		4	20
		6	10
17 Epileptic psychoses	4	0	10
18 Psychoneuroses and neuroses:		9	0
(a) Hysterical type		2	2
(b) Psychasthenic type (anxiety and obsessive fe		• • • •	3
(c) neurasthenic type		• • • •	1
19 Psychoses with psychopathic personality			1
20 Psychoses with mental deficiency		8	18
21 Undiagnosed psychoses	3	1	4
22 Without psychoses:			
(a) Epilepsy without psychoses		1	1
(b) Alcoholism without psychoses	4		4
(c) Drug addiction without psychoses	6	5	11
(d) Mental deficiency without psychoses	6	5	11
(e) Neuro-syphilis without psychoses		10	33
(f) Congenital syphilis		1	1
(g) Post encephalitic disorder			î.
(h) Situational reaction			1
(i) Criminal offence			2
(1) Orinimal offence	4	****	
Total	254	134	388

TABLE No. 3
DATIENTS ADMITTED DIREING 1931 WITH REFERENCE TO PRINC

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TED	tal																				b				_ /			••		20					~~	-1 .		03 1	~
ADMITTED	le Total	7.5	29	7.7	3	ಣ	(27 +	,		9		:	27		-	9.1	222	0	0	55	61	4 73		20	7	20	- G		18	4		- 1	11	en -	7 ,-1		2	80 00
	Male Female	-1 -	- eo .	4	: -	-		:	:	: :	7	:	:	67 7	- ·		10	16	: 10	a	60	22 23 rt 22	2 2	:	4 0	٥	2	:		00	-		: 10	0.10	10	- ::	:	:]	134
TIENTS	Male	: 0	26	20 00	٥ :	2	1	07 +		- -	4	7	:	:	-	-	-	9	<u>~</u> €	0	28	80 20 7	~ cc	, —	16	4	:	÷0 +		10	ಯ		4 6	9	23	-	1	2	254
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ON OF			erosis.		orea		no a Ta		Hydrocephalus	combined	other		with pellagra	psychoses	Exhaustion delirium			Depressive type			Paranoid type	Catatonic type	Rebeparence type			neuroses:	Hysterical type	Psychasthenic type	hoses with psychopathic personality			Epilepsy	Alconolism	Mental deficiency		Congenital syphilis	Situational reaction	Criminal offence	
MARITAL CONDITION			riosele	1150	Huntington's Chorea		10	Chronic encephalitis			and		die	,						enia)					ions .				pers	ncy .						Te			
CON			arte	James	ton's	brain tumor	or a iii	::		2 7	drugs and		mati	chose			ses:			rydoz					ondit	roses			athic	leficie						isorde			
ITAL	oses		ebral	I or Paris	unting	ain t	Tall	halitis		pinec	to dr		llagra	bsy	liriun		sycho	Эе	the alies	(Schiz			, ad k	9)	oid c	nen p		type	vehor	ntal	sesor:	:		ncy	ilis	onins tie d	ction	eo1	
MAR	Psychoses	ychos	ch cer	ysis .	sh Hu		00 110	encep	halus	con	ychoses	coxins	th pe	Post-infectious	on de	3	sive r	e tyl		neland	type	type	vne v	Undefined type	parar	psychoses roses and	l typ	nenic	ch ps	h me	psych		n iction	eficie	Neuro-syphilis	r syr	ıl rea	offen	
	H	c Ps.	s wit	paral	s with		×	onic	rocep	Sub-acute	psy	ious 1	SS Wil	-infe	Exhaustion	Diabetes	ic-depressive	ressiv	pe	Pra	noid	tonic	ole t	efinec	and	psyce	terica	chastl	s wit	s wit	psyc	epsy	Alcoholism Drug addie	tal d	.0-sy]	Congenital Post-encep	ationa	inal	
		Traumatic Psychoses	Psychoses with cerebral arteriosclerosis	General paralysis	Esychoses with Huntington's Cha	Psychoses	disease:				0 5	exogenous toxins	Psychoses with pellagra	Post		Dial	d		Mixed	Involutional melancholia	Para			Und	Paranoia and paranoid conditions	Epileptic psychoses	Hys		0	Psychoses with mental deficiency	Undiagnosed psychoses Without psychoses:	Epil	Drug	Men	Nen	Cong	Situ	Crin	
							4	(3)	(a)	(a)					(a)			(a) (b)				(p)	(2)					(p)					(a)	(d)	(e)		(h)	(i)	
		70	4 00	4 5	0 0	F- 0	0				9	H	11	4			13		7	1 1					16	18	1		1 9	20	21								

			F	irst					
			Admi	ssions	Re-adn	nissions		Tota	a ľ
Ages			Male	Female	Male 1	Female	Male	Femal	e Total
Under 15 y	ears	***************************************	1	1	****		1	1	2
15 to 19	4.6	***************************************	8	11		2	8	13	21
20 to 24	6.6	***************************************	17	11	4	2	21	13	34
25 to 29	"		24	16	4	3	28	19	47
30 to 34	66		26	11	5	2	31	13	44
35 to 39	6.6	***************************************	25	13	8	6	33	19	52
40 to 44	44		21	9	6	5	27	14	41
45 to 49	6.6	***************************************	23	8	1	4	24	12	36
50 to 54	66	***************************************	29	7	3	2	32	9	41
55 to 59	66	***************************************	19	5	4	1	23	6	29
60 to 64	6.6		5	3		2	5	5	10
65 to 69	66	***************************************	7	4			7	4	11
70 and ove	er		14	6	••••	••••	14	6	20
Tot	al	***************************************	219	105	35	29	254	134	388

TABLE No. 5

NATIVITIES OF PATIENTS ADMITTED DURING 1931

Nativity	Male	Femal	e Total	Nativity	Mal	e Fema	ale Toatl
Canada	93	62	155	Italy	3		3
England	30	19	49	Lithuania		1	1
Scotland	10	7	17	Norway	8		8
Ireland	4	2	6	Poland	13	4	17
Wales	3	2	5	Roumania	4	1	5
Newfoundland		1	1	Russia	5	5	10
Austria	5	2	7	Sweden	6	1	7
China	3		3	Switzerland	3		3
Czecho-Slovakia	4	1	5	Turkey	1		1
Denmark	3		3	Ukrainia	5	1	6
Finland	2		2	U.S.A	42	22	64
Germany	5	3	8				
Holland	1		1		254	134	388
Hungary	1		1				

TABLE No. 6

DISCHARGES, CLASSIFIED WITH REFERENCE TO PRINCIPAL PSYCHOSES AND CONDITION ON DISCHARGE, FOR THE YEAR 1931

	001,211,011	_, ,			G 23,	10.			11		, 100	•		Wi	tho	nt
			Tota	.1	Rec	ovei	red	Imp	rove	ed	Unim	pro	ved			
	Psychoses	M.	F.	T.	M.	F.	T.	М.	F.	T.	M.	F.	T.	M.	F.	T.
1	Traumatic															
2	Senile		2	2					1	1		1	1			
3	With cerebral arterio-															
	sclerosis			9	3	****					1		1			
4	General paralysis			11			2	9		9						
5	With cerebral syphilis	4		4			1			3		****				
6	With Huntington's Chorea		1	1			• • • •	• • • •	• • • •			1	1		• • • •	
7	With brain tumor			• • • •			• • • •		• • • •	• • • •	• • • •				• • • •	
8	With other brain or nervous	0		0												
0	Alcoholic psychoses		2	2 5		• • • •		2 3	2	5						
	Due to drugs and other	0	2	9			• • • • •	ð	21	9	****				• • • •	
10	exogenous towins	1		1	1		1									
11	With pellagra								• • • • •						• • • •	****
	With other somatic disease		2	2		1	1	••••	1	1			••••	3/		****
13	Manic-depressive		21	36		14	24	4		11	1		1	****		
14	Involutional melancholia		3	4	1	2	3					1	1			
15	Dementia praecox		38	82	20	17			11		3	10^{-}				
	Paranoia and paranoid con-															
	ditions		4	13	2	2	4	4	2	6	3		3			
17	Epileptic psychoses	6	4	10				3	2	5	3	2	5			
18	Psychoneuroses and															
	neuroses	5	3	8		2	2	5		5		1	1			
19	With psychopathic person-															
0.0	ality							• • • • •								
	With mental deficiency		11	15	2			_	4	5	1	2	3			****
21	Undiagnosed psychoses		1	1			1		• • • •						4 15	4.5
22	Without psychoses	30	15	45			• • • •		• • • •	• • • •		• • • •		30	15	45
	Total	1 4 4	107	251	19	44	86	60	30	0.0	1.0	18	20	2.0	15	4.5
	Total	144	107	791	42	44	00	0.0	9.0	90	12	19	50	50	19	40

TABLE No. 7

RECORD OF DEATHS DURING 1931

Registe No.	er Sex.	Age.		in Hos Months.		. Cause of Death
$\begin{array}{c} 3402 \\ 4902 \end{array}$	F M	16 48	4	9 7	••••	Chronic pulmonary tuberculosis. Prolonged confusional attack; Myocardial degeneration.
4940 5116	M M	61 71		5	27 7	Senile dementia. Senile dementia.

TABLE No. 7—Continued

						1—Continued
Register				in Hos		Cause of Death
No.	Sex.	Age.	Years.	Months.	Days	
4835	M	38		9		Fracture of skull, Haemorrhage.
5084	F	75		1	8	Senile dementia.
85	M	63	19	5	27	Erysipelas of face and arms.
5131	F	68			10	Acute Cardiac failure.
4054	M	70	1	11	17	Senile dementia.
4070	M	50	2	11	7	Large supre-pituitary tumor
4953	M	64		7	18	Fracture of vault of head.
3950	F	63	3	3	4	Typhoid fever.
	F	39		3	23	Not accertained.
5042	M	61	 1	7	7	Myocardial degeneration; general paresis.
4571		35		1	12	Suicide by hanging.
5162	M		19	8	9	Pernicious anaemia.
107	M	76	3	5	3	Cerebellar tumor.
3956	M	38	-		12	Arteriosclerotic dementia.
5217	M	76	••••	3	12	Arteriosclerosis; Myocardial degeneration.
5129	M	78	****		24	Acute bronchitis; Senile dementia.
4925	M	60	••••	9		Toxaemia, Balanitis and Scrotal slough,
2966	M	31	6	10	18	Facial erysipelas.
					10	Ascending pyelo-nephritis, Cystitis.
5196	F	29		1	16	Ascending pyelo-nephritis, Oysutto.
5243	M	45	****	1	2	Broncho-pneumonia. Broncho-pneumonia, Acute catatonic excite-
5209	M	23		1	29	
						ment.
5236	M	52		1	12	General paralysis.
4976	F	82		3	16	Strangulated hernia; Senile dementia.
5199	M	59		2	10	Pneumonia with empyema; Toxaemia.
4920	F	42		11	24	Suicide by drowning.
5248	F	56		1	12	Broncho-pneumonia; General paresis.
5184	M	80	****	3	2	Carcinoma of the pancreas.
5068	M	20		7	2	Acute infection of larynx and mediastinum.
2780	F	25	7	10	14	Pulmonary tuberculosis.
962	F	52	15	1	17	Double broncho-pneumonia; Typhoid fever.
4621	M	38	1	10	18	Pulmonary tuberculosis.
5312	M	67			16	Cerebral arteriosclerosis.
807	M	37	16	1		Typhoid fever; Ruptured spleen.
5229	M	28		3	9	Not determined.
3909	M	55	3	11	5	Cardiac failure due to pressure of distended
						stomach.
4584	M	45	2		13	Drowning whilst having an epileptic seizure.
945	F	53	15	3		Broncho-pneumonia.
805	M	40	16	1	20	Heart failure due to administration of
						anaesthetic.
5374	M	59			18	Arteriosclerotic dementia.
5391	F	52			7	Cerebral tumor.
2726	F	38	8	3	6	Broncho-pneumonia, fractured right fibula;
						Epilepsy.
5396	M	42	****	****	15	Hypostatic congestion, Dementia praecox
						(catatonic).
4303	F	44	2	11	12	Pulmonary tuberculosis.
3911	F	23	4		19	Septic sore throat, Dementia praecox.
5356	F	52		1	27	Acute fibrinous bronchitis, Involutional
						melancholia.
5415	M	47		••••	14	Broncho-pneumonia.
4098	M	69	3	6	10	Cerebral apoplexy with right hemiplegia.
5390	M	80		1	5	Exhaustion and Hypostatic congestion.
5439	F	74		****	11	Broncho-pneumonia, Senile psychoses.
795	M	56	16	4	9	Pulmonary tuberculosis, Amyloid disease.
3761	M	53	4	6	26	General paralysis, Exhaustion.
4858	F	22	1	7	****	Strangulation by hanging.
1353	M	34	13	8	25	Idiopathic epilepsy; Status epilepticus.
5445	M	56			26	Cerebral tumor.
3484	F	87	5	6		Arteriosclerosis, Heart failure.
3264	M	22	6	4	10	Chronic encephalitis.

TABLE No. 8

PLACE OF RESIDENCE AT TIME OF COMMITTAL, 1931

I LATOLI V				TIME OF COMMITTAL, 1991
Place.		emale I	otal	Place. Male Female Total
Acadia Valley	****	1	1	Black Diamond 1 1
Acme		1	1	Blackie 1 1
Alberta Beach		1	1	Blairmore 1 1 2
Alcomdale	1		1	Bon Accord 1
Alexis		1	1	Bonnyville 2 1 3
Andrew	1		1	Boscombe 1 1
Arrowwood	1		1	Breton 2 2
Athabasca	1	1	2	Brooks 1 1
Banff		2	2	Bruderheim 1 1
Barkerville	1		1	Buck Lake 1
Barons			1	Buford 1
Bashaw			1	Rull's Wood
Bassano		1	1	Calgary 37 21 58
Bear Lake			1	
Beaver Dam			1	
Bellevue			1	Camrose 2 2 4
		****	1	Carmangay 1 1
Beiseker	****	1	1	Cardston 1 1
Bellis		1	1	Cassils 1
Beverley		1	1	Carstairs 1 1 2
Bissell		1	7	
D100011	****	T	1	Castor 2 1 3

TABLE No. 8—Continued

Place.	3/1.3	TO	m , 1	70.1			
Carvel		Female					e Total
Claresholm	2	1 1	1 3	Mannville	1	1	2
Chigwell		1	1	Markerville	2 1		2
Clive		1	2	McLennan	1		1 1
Clyde			$\frac{1}{2}$	McMurray	1	****	1
Coalhurst		1	ĩ	Medicine Hat	4	5	9
Cold Lake		1	î	Millet	1	1	2
Coleman			1	Mirror	1	1	2
Condor			ī	Minburn		1	1
Cosmos		1	î	Monarch	2		2
Dapp			î	Morinville	ī		1
Didsbury			ī	Mountain View	î		1
Donalda		••••	2	Mundare	2	1	3
Donnelly		****	1	Musidora		î	1
Dorenlee		1	ĩ	Nampa		î	1
Dorothy		••••	1	Nanton		1	î
Drumheller		••••	4	Nevis	1		1
Duhamel	1	****	1	Newbrook	1		î
Dunstable			1	Nightingale	ī		î
Duvernay	1	****	1	Ogden		1	î
Edmonton	44	21	65	Olds	1	2	3
Eaglesham	1	****	1	Onoway		$\bar{1}$	ĭ
East Coulee	1	• • • •	1	Pakan	1	****	î
Edberg			1	Peavine	1		ī
Edson		1	1	Pendant d'Oreille	1		î
Elsmworth	1		1	Penhold	1	****	1
Erskine		2	2	Phillips		1	1
Fairview		1	1	Pincher Creek	1	1	2
Falher		• • • • •	1	Plamondon	1		1
Falun	1		1	Pollockville	1		1
Fenn			1	Ponoka	1	1	2
Flagstaff		1	1	Prince Albert			
Forestburg	1	• • • •	1	Penitentiary	1		1
Fort Saskatchewan	2		2	Prosperity	1		1
Frank	1	••••	1	Provost		1	1
Freeman River	1		1	Raven	1		1
Gadsby		1	2	Redcliff	1	1	2
Genesee		••••	1	Red Deer	1	1	2
Gleichen	4		4	Rocky Mountain House	3		3
Grande Prairie		1	1	Rosedale	2		2
Grassy Lake			1	Rosemary	1		1
Grimshaw		••••	1	Roycroft	1	1	2
Hamlin		****	1	Ryley		1	1
Harmattan			1	Sarcee		1	1
Hay Lake	****	1	1	St. Paul	1	1	2
Hayter		****	1	Schuler	1		1
Heath Creek		****	1	Shandro	1		1
Herronton	1	••••	1	Smoky Lake	1		1
High Prairie	1		1	Spedden		1	1
Hippor Crook		2	2	Spirit River	****	1	1
Holborn		••••	1	Spring Creek	1		1
Holborn		****	1	Stettler	2	2	4
Homeglen Hughenden		1	1	Strathmore	1		1
Innisfail	$\frac{1}{2}$	••••	1	Suffield		1.	1
Iron River	1	****	2	Sunget Prairie RC	2	• • • •	2
Iron Springs		••••	$\frac{1}{2}$	Sunset Prairie, B.C Telfordville	1	••••	1
Jarrow		• • • •	1	Therien	1	****	1
Judah	1	• • • • •		Thorsby		1	1
Kayow	1	****	1	Turner Valley	1	1	1
Kitscoty	1	****	1	Vegreville	$\frac{1}{2}$		1 0
Lacombe	1	1	2	Viking	2		2
Lamont		1	1	Villeneuve	1		2
Larkspur	1		1	Vilna	2	••••	2
Legal	1		1	Wainwright	1		1
Leighmore	1	••••	1	Waskatenau	1	****	1
Leslieville	1		1	Walsh	1		1
Lethbridge	10	3	13	Waterways		1	1
Linaria		1	1	Waugh		1	1
Lochvale	1		1	Wayne		1	1
Macleod	2	1	3	Wetaskiwin	6	1	7
Magrath	1		1	Whitemud		1	í
Manyberries	î		î				
				Total	254	134	388

Provincial Mental Institute, Oliver

(W. J. McAlister, M.D., Acting Medical Superintendent)

Following the resignation of Dr. Fitzpatrick in July, I was asked to take over as Acting Superintendent of the Institute and at the same time act in a supervisory capacity to Dr. McCullough in his work at Red Deer. Dr. Brearley, who was assistant physician at the Institute, when I came, resigned in October, his place being taken by Dr. Lefsrud, of the Ponoka staff. He also resigned about the end of the year, and Dr. Valens, who had been on the staff of the Ponoka Hospital earlier in the year, was taken on the strength in his place, and has continued as medical assistant ever since.

In October it was decided that the corridor connecting No. 1 unit with the service building should be completed. This was done, but it was not ready in time to permit us to open the new kitchen and dining rooms before February, 1932.

The movement of population, unfortunately, was extremely limited. This to be expected considering the chronic nature of the psychoses from which practically all of our patients suffer. A return to community life, no matter how desirable, is out of the question for most of them, for such return presupposes homes to go to and adequate supervision when they arrive there. The general health of the patients during the year was quite satisfactory. The mortality rate was extremely low, and confined altogether to patients of advanced years. Occupational therapy was continued throughout the year. We hope to be in a position to enlarge upon this work soon to the mutual advantage of both the patients and the Institute. Adequate dental attention was given by Dr. Heacock to all requiring dental work.

STATISTICAL TABLES

In preparing this report, we have given special attention to statistics dealing with the life history of our patients. This data, culled from various sources, is submitted for the help it should give in any attempt to more thoroughly understand the many factors which have a bearing on the incidence of mental disease, and to appreciate more fully the social and economic loss to the Province which mental disease entails.

Tables 7 and 7a are especially interesting, as they show that of our total population, 58% developed mental disease and were admitted to a mental hospital before they were 35 years of age. Of these 80% were Schizophrenics, or cases of Dementia Praecox. Schizophrenia is considered hereditary, and hence is closely allied to that other biogenic problem, primary mental defect. As the Schizophrenic forms the largest group in any mental hospital, and as the primary ament forms the largest group in any school for the feeble-minded, one is impressed by the need for constantly carrying

on the fight against the root cause of these two social and economic problems—defective stock and its propagation.

Table 9 would suggest that the isolation and other stresses associated with rural life are greater precipitating factors in the causation of mental breakdowns than any comparative conditions found in urban life. About 70% of our cases were admitted from a rural environment.

Economic dependency—fear of being in want—doubtless has a place too as a causative factor. Over 80% of our patients were more or less dependent on admission to the mental hospital. Table 16 shows the great preponderance of those following agricultural and manual pursuits in comparison with those from other walks of life, and is of interest especially if considered in conjunction with Tables 9 and 10.

TABLE No. 1
MOVEMENT OF INSANE POPULATION

MOVIE OF THOMAS			
Patients on Books Jan. 1st, 1931:	Males	Females	Total
(a) In Hospital(b) On Probation	317	*****	317
(5) 01 11002001	* ******		
Total	317	*****	317
Admissions during Year:			
(a) First Admissions	11		11
(b) Re-admissions	1		1
(c) Transfers	1		1
Total	1.0		1.0
10tal	13	*****	13
Total Received during Year:			
(a) Transfers	1		1
(b) Re-admissions (c) By Warrant	1		1
(d) By Voluntary Application	$\frac{4}{7}$	*****	4 7
Total	13	•••••	13
Total on Books during Year	330		330
Discharged during Year:			
(a) As Recovered			
(b) As Improved	6		6
(c) As Unimproved	i	*****	1
(d) As without Psychoses	2		2
(e) Transfers	1	.g.,	1
(f) Died during Year	4	P7	4
Total	14		14
10041	14		14
Patients on Books end of Year:			
(a) In Hospital	316		316
(b) On Probation			
m + 1			
Total	316	*****	316
Total Admitted since Opening	473		473
Total Discharged since Opening	104		104
Total Died since Opening	53		53

TABLE No. 2 NUMBER OF OFFICERS AND EMPLOYEES

M	lales	Females	Total		Males	Female	s Total
Medical Superintendent	1		1	Teachers			
Medical Officer	1		1	Occupational Therapy	1		1
Dentist	1	****	1	Kitchen and Bakery	3		3
Administrative Asst	1		1	Laundry	1	1	2
Bursar	1		1	Gardeners & Assistants	4		4
Storekeeper	1		1	Engineers & Mechanics	7		7
Stenographer		1	1	Other Male Employees	7		7
Night Supervisor			. 1	Other Female Em-			
Graduate Nurses				ployees			
Other Female Nurses							
Male Attendants	39		39	Total	69	2	71
Social Workers							· -

PSYCHIATRIC AND INDUSTRIAL CLASSIFICATION OF PATIENTS Males Females Total	TANK M. A			
Patients Insane	TABLE No. 3	PATIE	NTS	
Patients Insane 17		Males 1	remaies	
Mental Deficiency (not insane)	Patients Insane			
Alcoholies (not insane)	Mandal Deficiency (not incone)		******	
Drug Addicts (not insane) Neurosyphilitics (not insane) All Other Types				
Neurosyphilities (not insane)	Dan Addista (not incone)			
Total Population	atlilidiag (not incone)			
Industrial Workers				316
Canada Workers 211 211 211 211 External Workers 16 16 16 16 16 16 16 1	T 3 4 1 1 TIV1			
Table No. 4	Carden Workers			
Total Population	Internal Warkers			
Total Population	External Workers			
TABLE No. 4 NATIVITY OF PATIENTS IN RESIDENCE Males Females Total Males Females Total Canada 96 96 Japan 2 2 2 2 2 2 2 3 3 3	Doing No Work			
TABLE No. 4 NATIVITY OF PATIENTS IN RESIDENCE Males Females Total Males Females Total Canada 96 96 Japan 2 2 2 2 2 2 2 2 2	Total Population	316		316
NATIVITY OF PATIENTS IN RESIDENCE Males Females Total				
Males Females Total Males Females Total				
Canada	NATIVITY OF PATIENTS IN RESIDENCE		- 1	m . t . 1
Canada				
Australa	Canada	-	****	
Belgium	Australia			
China	Relgium 1 1 Roumania	4		_
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Citizen by Birth 96 96 Citizen Naturalization 17 17 Aliens 136 136 Unascertained 7 7 British Birth Out—Canada 60 60 Total 316 316 TABLE No. 6 DENTAL REPORT Males Females Total Patients Examined 288 288 Patients Treated 75 75 Prophylactic Treatments 68 68 Fillings 34 34 Extractions 35 35 Naw Dentures 4 4	CITIZENSHIP OF PATIENTS IN RESIDEN		_ ,	m . 1
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	PSYCHOSES
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Psychoses Total Under 15 yrs. J	Traumatic	Senile	erebral Arteriosclerosis	8	With Cerebral Syphilis	With Huntington's Chorea		With Other Brain Diseases	2 2	With Pellagra	eases 1 1	13 13		198 198 1	44	Ipileptic Psychoses	11.00 1 1 1	4	With Mental Deficiency		Vithout Psychoses	The second second	Fotal316316 22 12
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TABLE No. 7a
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TABLE No. 9 ENVIRONMENT OF FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

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TABLE No. 10 ECONOMIC CONDITION OF FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

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TABLE No. 11 USE OF ALCOHOL BY FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

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M	M.	: *	~	67	[~	:	:	:	_	_	:	:		70	-	24	16	7	:	:	:	:	_	1	62
le.	T.	:	4			:	:	:	2		:	:	:	ũ	:	163	26	ಣ	-	4	12	:	11		234
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T	M.	:	00	4	00	:	:	:	ಣ	2	:	:	-	13	_	198	44	ಸರ		4	12	:	12	1	316
	Psychoses	Traumatic	02	Ĭ	General Paralysis	With Cerebral Syphilis	With Huntington's Chorea	With Brain Tumour	With other Brain Diseases	Alcoholic	Due to Drugs	With Pellagra	•		Involutional Melancholia	Dementia Praecox		Epileptic Psychoses	Psychoneuroses and Neuroses	With Psychopathic Personality	With Mental Deficiency	Undiagnosed Psychoses	Without Psychoses		Total
		1	27	60	4	70	9	1	00	6	10	11	12	13	14	70	16	17	18	19	20	21	22		

DISCHARGE OF PATIENTS ACCORDING TO PRINCIPAL PSYCHOSES AND CONDITION ON DISCHARGE TABLE No. 13

			Total		Re	Recovered		Im	Improved		Uni	Unimproved	-
	Psychoses	M.	Œ	Ŧ.	M.	Œ,	T.	M.	Ē.	T.	M.	E.	T.
-	Traumatic	:	:	:	:	:	:	:	:	:	:	:	:
2	Senile	:	:	:	:	:	:	:	:	•	:	:	:
60	Cerebral Arteriosclerosis	:	:	:	:		:	:	:	:	:	:	::
4	General Paralysis	:		:	:	:	:	:	:	:	:	:	:
10	With Cerebral Syphilis	:	:	:	:	:::	:	:	:		:	:	:
9	With Huntington's Chorea	:	:	::	:	:	:	:	:	:	:	:	:
20	With Brain Tumour	: 0	:		:	:	:		: :		: :	: :	: :
00	With other Brain Diseases	1	:	1	:	:	•	ı					
6	Alcoholic	:	:		:	:	:	:	:	:	:	:	
10	Due to Drugs	:	::	:	:	:	:	:	:	:	:	:	
111	With Pellagra	:	:	:	:	:	:	:	:	:	:	:	:
12	With other Somatic Diseases	i	:	:	:	:	:	:	:	:	:	:	:
13	Manic-depressive	::	:	:	:	:	:	:	:	:	:	:	:
14	Involutional Melancholia	:	:	: (:	:	:	: -	:	: -	: 0	:	: 0
15	Dementia Praecox	က	::	9	:	::	:	1	:	7	7	:	7
16	Paranoia or Paranoid Conditions	:	:	:'	:	:	:	: -	:	:-	:	:	:
17	Epileptic Psychoses	~ ∘	:	- -	:	:		7 0	:	٦ ٥	:-	:	: -
100	Psychoneuroses and Neuroses	20	:	00	:		:	7	:	7	-	:	7
19		:	:	:	:	:	:	:	:	:	:	:	:
20	With Mental Deficiency	:	:	: '	:	::	:	:	:	:	: -	:	: -
21	Undiagnosed Psychoses	_	:		:	:	:	:	:	:	1	:	7
22	Without Psychoses	:	:	:	:	:	::	:	:	:	:	:	:
			1		1		1			']	1	1
	Total	10	:	10	:	:	:	9	:	9	4	:	4

CAUSES OF DEATH CLASSIFIED ACCORDING TO PRINCIPAL PSYCHOSES—AGE AT DEATH—DURATION OF HOSPITAL LIFE TABLE No. 14

ration spital Life	Mths.	2	ro	က	က	1	:
Dan Ho	Yrs.	14	20	15	2		:
Age	,	56	69	09	73	1	:
ပ 🖁	T.	_	::	::	:	1	-
Epileptic Sychoses	드	:	:	:	:	1	:
Epi	M.	-	:	:	:	1	-
ia, id	T.	:	:	-	:	١	-
aranoi Cond.	M. F. T.	:	:		:	į	:
Pal Pa	M.	:	:	-	:	1	⊢ ,
7 1 0	T.	:	:	:	-	j	-
Cerebral Arterio-	F. T.	:	:	:	:	1	:
Ce Ar	M.		:	:	-	ļ	
	T.	:	-	:	i	1	-
Senile	F.		:	:	:	1	:
V.	M.	:	-	:	:	1	_
	T.	-	-	1	-	1	4
Total	Œ.	:	:	:	:]	:
F	M.	,	-			1	4
	Cause of Death	Chronic Wvocarditis	Acute Dilatation (Cardiac)	Cellulitis of Neck	Broncho-pneumonia		Total

TABLE No. 15 RELIGION OF PATIENTS IN RESIDENCE

	M.	F.	T.
Baptists	10		10
Congregationalists			
Episcopalians	30		30
Jews	3		3
Presbyterians	32		32
Roman Catholics	89		89
United Church	21		21
Other Denominations	96		96
Unascertained	35		35
Total	316	****	316

TABLE No. 16 OCCUPATION OF PATIENTS IN RESIDENCE

Occupation Professional Professional Commercial Agricultural and Pastoral Mechanics at Outdoor Vocations Mechanics, etc., at Sedentary Vocations. Domestic Service Education and Higher Domestic Duties. Miners, Marine, Engineers, Railway Employees Labourers No Occupation Unascertained 8 106 • • • • 106 18 18 14 3 3 105 3 43 105 43 316 316

Provincial Training School, Red Deer

(D. L. McCullotgh, M.D., Acting Medical Superintendent)

On the 31st of December, 1931, there were 190 patients in residence as against 180 at the 1st of January, 1931, an increase of 10 for the year. Table No. 1, which is appended, gives in detail the movement of the patients throughout the year with the sex distribution.

Twenty-five new applications for admission were received, 9 male and 16 female. This brings the total number of cases awaiting admission to 182 (Table 2) or, if allowance is made for the 7 cases whose present whereabouts we do not know, there are in all 175 cases seeking admission. Many of these are of a most pitiable and urgent nature. Ninety are males and 85 females.

In addition to these 25 cases definitely applying for admission, a further 27 cases of mental deficiency were reported to the Training School by various agencies. Table 3 shows that the total number of suspects reported since 1923 is now 533, 304 males and 229

females.

The present status of the feeble-minded problem throughout the Province, as known to us, is given in Table 4. Disregarding the 43 cases discharged or paroled from the Provincial Training School between the years 1923-31, there were at the end of the year 240 patients resident in the institutions at Red Deer, Ponoka and Oliver, 182 awaiting admission to Red Deer and 533 suspects reported, giving a total of 955, 715 of whom are extra-institutional. As many of the latter are a grievous burden on the families to which they belong, the need for further institutional accommodation is evident.

Institutional Progress.

The year just ended has been one of consistently steady progress. Early in August Dr. W. J. McAlister, for eight years Medical Superintendent of the Training School, was transferred to Oliver, and his place taken by Dr. D. L. McCullough, for ten years Assistant Medical Superintendent at Ponoka. The suite of rooms in the main building vacated by Dr. McAlister was remodelled to accommodate the matron and some members of the female staff formerly located on the second floor. This in turn released accommodation for 12 more patients, and with a few minor alterations effected on the third floor, will bring our total accommodation to 200 beds. Some of the new beds were already occupied at the end of the year.

Although this was the only structural change of any consequence and no new construction was undertaken, much work was done by the various mechanical and outside staffs in maintaining and improving the physical efficiency of the buildings and plant.

Early in the year the installation of the electric refrigerators in the kitchen was completed, and they have since given good service. In the fall another fire hydrant was set up to the north of the main building, giving prompt and easy access to a side of the building hitherto reached only with difficulty and the loss of valuable time had a fire occurred.

A pipe system was laid to supply the gardens and grounds with water, thus meeting a long felt need.

A water softener was installed in the power house and went into service on the 1st of January, 1932. This should do much to reduce laundry costs and increase the life of linens, woollens and other laundered articles.

The gardens and grounds were also well maintained, the work, along with the farm work, providing a splendid outlet for the activities of the larger boys. The crop of vegetables realized was one of the best for some years.

HEALTH OF PATIENTS.

The health of the patients, as a whole, was very good, though one case of typhoid (in a previously immunized patient) and two cases of scarlet fever occurred early in the year and 10 cases of whooping cough in the fall. There were 5 deaths. Reference to Tables 15 and 16 show that the deaths were due to such diverse conditions as lobar pneumonia, septicaemia, erysipelas and status epilepticus (two cases), conditions which could not in themselves be taken as indicating a general state of low health on the part of the children.

As in other years, we have sought to maintain the health of the patients as a whole by providing a wholesome, well-balanced diet, insisting on absolute cleanliness of the patients and their surroundings, providing work for those mentally and physically capable of working, with recreation and play for all. In addition to these general measures for promoting health, specific measures used were the prophylactic inoculation of 235 patients against scarlet fever and 55 cases against smallpox, together with a number of inoculations against diphtheria in the newly admitted patients. Typhoid inoculation was not resorted to, as all patients and staff had been immunized in the fall of 1930.

Patients' Activities.

Close supervision was kept over the various activities of the patients in the gymnasium and playgrounds, in the sense training, academic and vocational classes as well as in the various Departments where patients are employed, such as the sewing room, laundry, dining rooms, pantry, kitchen, infirmary, gardens, grounds and farm.

Outdoor games and exercise in the summer, skating and indoor games in the winter were again encouraged.

During August and September several groups of boys or girls, thirteen or fourteen at a time, went for a week each to the camp at Sylvan Lake. The children thoroughly enjoyed the camping and bathing as a relief from the year-long routine of institutional life, were greatly benefited in health. Some, also, were benefited in disposition and temperament. Altogether some 70 children attended camp.

Two of the staff have got together an enthusiastic group of girl guides. The matron and registered nurse have given the high grade girls some simple instruction in elementary nursing and first aid. A number of Sunday school classes are now being regularly held for both boys and girls.

In these latter activities the performance of the children cannot be compared with that of normal children, nor can comparable results be expected, but good work is undoubtedly being done in the way of enhancing their personalities, exteriorizing their interests, substituting healthful activities of body and wholesome attitudes of mind for harmful, as well as increasing their happiness. I appreciate the help of the staff, who without exception have throughout the year, in this as in other matters, been loyal, helpful and willing to give voluntarily their time and services to the ideals of the school.

Educational activities were fully maintained, larger groups having been taken for instruction by the teacher, sense trainer and playground supervisor. Occupational activities were extended not only to a larger number of girls, but to a group of small boys for an hour each afternoon during the winter months, thus giving them a change of surroundings from the wards and a welcome and wholesome outlet for their energies.

The samples of occupational work displayed at the Edmonton exhibition and the Red Deer fair as a part of the public health exhibit drew very favourable comments, found a ready sale, and did much to enlarge the knowledge of the public concerning the activities of the school and the Department.

A successful sports day was held early in July. A number of patients' dances were held during the winter months. At Christmas a number of the smaller children, under the tuition of the sense training teacher, put on a highly creditable concert.

Throughout the year a number of fire drills were held, either sectional practices or general alarms, as the weather permitted.

STAFF.

Fewer changes have occurred in the personnel of the staff than usual.

Except for two cases of scarlet fever, the health of the staff has been, on the whole, good.

In November, Miss G. T. Dahlback, matron, was replaced by Miss E. M. Holmes, R.N., and Miss L. A. Hibbard, R.N., by Miss E. M. Carnochan, R.N.

In October a branch of the Civil Service Association was formed, and it is hoped will be active in developing the social side of the staff life.

EUGENICS BOARD.

The Eugenics Board met at the Provincial Training School February 12th, 1931, considered and approved of the sterilization of 4 cases, on June 4th approved of 7 cases, and on December 17th considered 4 cases and approved of 3. Table 14 shows that to date 31 cases have been presented to the Board, and 30 approved of for operation. Only 25 have been sterilized, the parents having in some

cases withheld their consent. Nine have been paroled and none, as yet, returned to the Provincial Training School.

DENTAL WORK.

Dr. Heacock visited the Training School twice during the year and made a thorough survey of all patients, doing the necessary extractions, fillings and much prophylactic work. This is a most valuable contribution to the health of the patients.

SOCIAL SERVICE WORK.

In June Mr. Jaffary's place was taken by Mr. Kibblewhite, who has called in at intervals, investigated a number of cases and sent us field reports.

DIETETICS.

Mr. Kolb, at the instance of the Department, paid a number of visits in an advisory capacity, investigating our dietary and making numerous suggestions.

VISITORS.

Visits were received during the year from Dr. M. R. Bow, Deputy Minister of Health, Dr. C. A. Baragar, Commissioner of Mental Institutions, and Dr. W. J. McAlister in a business and advisory capacity. These visits are always welcomed and appreciated; the visits of Dr. McAlister being especially valuable on account of his peculiarly intimate knowledge of every phase of the Training School life and organization. Early in November, Dr. H. B. Spaulding, Ph.D., Director of the Division of Statistics and Legislation for the Canadian National Committee for Mental Hygiene, paid a visit. On a number of occasions Mr. D. E. McDonald, Superintendent of Buildings, Department of Public Works, called on business. Through long association with the Training School he understands our problems and needs, and his willing co-operation and readiness to help are greatly appreciated.

TABLE No. 1 MOVEMENT OF PATIENTS IN 1931

		F.	T.		M.	F.	T.
Number in residence at Dec. 31, 1930		85	180	Discharges, etc., during 193 Paroled	3	3	6
Voluntary admissions			21	Discharges Transfers		2	2 2
Re-admissions Transfers			2 2	Deceased	2	3	5
	107	98	205	Number in residence at Dec. 31, 1931	102	88	190

TABLE No. 2

APPLICATIONS RECEIVED YEARLY BUT PATIENTS NOT ADMITTED

	Μ.	F.	an.
Applications received prior to 1923			T.
Applications received prior to 1929	13	13	26
Applications received during 1923	8	3	1.1
Applications received during 1924	10	0	11
Applications received during 1925	1.0	8	18
Applications received during 1925	****	3	3
Applications received during 1926	8	1.0	10
Applications received during 1927	4	10	10
Applications massived desired 1000	4	Ð	9
Applications received during 1928	7	4	11
Applications received during 1929	14	o.	23
Applications received during 1930	17	3	
Applications 10011 1 1 1 1000	17	14	31
Applications received during 1931	9	16	25
		20	
Total number of cases not admitted			
Total humber of cases not aumitted	90	85	175
Present whereabouts unknown	4	3	7
	^	9	
Total number of coses amoiting alleria:			
Total number of cases awaiting admission	94	88	182

		TA	BLE	No. 3					
	SU	SPE	CTS F	EPORT	CED	44			CTT.
C						M. 107	F. 56		T. 163
Cases reported prior to 1923 Cases reported during 1923						28	33		61
Cases reported during 1924							12 14		32 31
Cases reported during 1925 Cases reported during 1926						30	21		51
Cases reported during 1927							17 18		29 36
Cases reported during 1928 Cases reported during 1929						29	28		57
Cases reported during 1930							22 8		46 27
Cases reported during 1931	******				*************				
Totals							229	1	533
The present whereabouts or reported prior to 1923.	of ma			e cases	is unkno	wn to us, part	icular	Ty Ca	ases
SUMMARY OF	MEN				S IN TE	E PROVINCE			
SOMMAN OF .	MALIA	1 1111	DHI	3011 7 1		M.	F.		T.
Mental Defectives resident at							88 16		190 43
Discharges, paroles, etc. (19 Awaiting admission (Table 2)	331)					88		182
Suspects reported (Table 3)						304	229		533 38
Mental Defectives, not insane Mental Defectives, not insane	e. res	ident siden	t at Po	noка Hiver		19	1.9		12
Cases reported, sex unascerta									6
Totals						546	440	1	,004
		m	ADIT	No. 5					
() CITRON	07.00				ATTOTAL A TO	MICCIONC			
(a) CHRON	M.	F.	L AGE	LS OF	NEW AD	MISSIMS	м.	F.	T.
From 1 to 4 years	171.	1	1	From	25 to 2	9 years		1	1
From 5 to 9 years From 10 to 14 years	1 8	2 2	3 10			4 years	1	••••	1
From 15 to 19 years	2	6	8	riom				_	_
From 20 to 24 years	••••	1	1		Totals	***************************************	12	13	25
(b) CHRONO	LOGI	CAL	AGES	S OF C	OUTGOIN	G PATIENTS			
T	M.	F.	T.	TD	05 4- 0	0	M.	F.	T.
From 5 to 9 years From 10 to 14 years	2	3	1 5			9 years rds	****	1 1	1
From 15 to 19 years	3	2	5		Maka la			7.0	-
From 20 to 24 years	••••	2	2			•••••••••	5	10	15
(c) CHRONO				OF T	OTAL PO	PULATION		_	
From 1 to 4 years	М.	F. 1	T. 1	From	25 to 2	9 years	M. 8	F. 15	T. 23
From 5 to 9 years	5	6	11	From	30 to 3	4 years	5	4	9
From 10 to 14 years From 15 to 19 years	30 31	19 22	49 53	From	35 upwa	rds	4	3	7
From 20 to 24 years	19	18	37		Totals .		102	88	190
		Т	ABLE	No. 6					
		B	IRTHP	LACES					
					Resident		ents		
Alberta	*******				Patients 129	Mother 9		Fath	er
Other Provinces					30	50		60	
England					8	31 4		30	
Scotland					1.0	11		4	
Slavic					13 3	28 25		29 25	
Others					$\frac{1}{6}$	11		13	
CHARLOWII	• • • • • • • •				0	21		25	
		T		No. 7					
D C (1) 1			RELIC						
Roman Catholics	*******								36 14
Protestants						******************			118
Mormons	*******						********		3 19
									10
				No. 8	D				
Urban			72	NMEN' Rur		***************************************			1.0
						***************		*****	118
	0.00			No. 9					
					F HOME				
Comfortable			51 79	Dep	endent		• • • • • • • •	•••••	51
									9

TABLE No. 10			
RESPONSIBILITY FOR MAINTENANCE			
Wards of the Province Wards of the Municipal District Wards of the Department of Child Welfare. Wards of the Department of Municipal Affairs Wards of the Department of Pensions & National Health, Ott. Private Cases	awa	**********	26 135 1 18 2 4
Wards of the Dominion Government Responsibility not established			1 3
TABLE No. 11			
MENTAL STATUS			
Classification Numbe	r Present.	Percen	tage.
Idiot Imbecile Moron M.D. and Psychotic M.D. and Psychopathic M.D. and Epileptic Mongolian	73 82 35 3 4 42 12	22.	16 42 58 10
TABLE No. 12			
ANTECEDENT HEREDITY OF PATIENTS IN RETRIBUTED Epilpetic 12 Alcoholism Psychotic 22 Syphilis Mental Defective 80 T.B.C. Neuropathic 25 Deafness Psychopathic 1 Mutism			7 15
TABLE No. 13			
INFIRMARY TYPE OF PATIENT Idiot. Imbecile.	Grand To	atal Per	cent.
20 13 33 7 4 11	44	23.	16
TABLE No. 14			
CASES STERILIZED			
Number of cases presented to Board Number of cases approved by Board Number of cases operated on Cases sterilized prior to admission Sterilized cases, paroled Number of cases re-admitted Sterilized cases in residence	M. 9 9 5 2 3	F. 22 21 20 5 7 18	T. 31 30 25 5 9 21
TABLE No. 15			
DISCHARGES, 1931			
	Re- dmitted. De		
Idiot	2	1 2 2	2
CAUSES OF DEATH Lobar Pneumonia Septicaemia Erysipelas Status Epilepticus	M. 2	F. 1 1 1	T. 1 1 1 2

Central Alberta Sanatorium, Calgary

(A. H. Baker, M.D., Medical Superintendent)

Owing to the prevailing economic conditions it has not been found possible to extend anti-tuberculosis work to any great extent. The Sanatorium services, however, have not been curtailed, and a larger number of clinical examinations have been conducted than in previous years. It has been possible to materially reduce the per diem cost of treatment, which includes not only the actual cost of treating patients in this institution, but also the cost of all tuberculosis clinic services assumed by the Department of Public Health.

THE CLINIC WORK.

The clinic work has proceeded along the usual lines, the bimonthly clinic in Edmonton and the weekly ones at the Sanatorium and in Calgary being well patronized. All told, 135 new cases of tuberculosis were diagnosed in this department.

Medicine Hat Clinic.

In June a five-day clinic was conducted by two Sanatorium physicians. The Christmas Seal Sale Committee provided the funds for X-ray examinations and also the services of a nurse to assist the resident Public Health Nurse. The doctors in the city and the surrounding country were asked to refer all suspected cases and all known contacts. One hundred and eighty-five persons were examined and X-rayed, and of these 17 definite cases of tuberculosis were found and 36 were considered more or less suspicious. Since then some of the latter have been proven to be tuberculous, while the majority have remained well. It is felt that a reasonably complete check-up was made of the Medicine Hat district, and has made possible subsequent supervision.

Survey Blood Indian Reserve, Cardston.

Two Sanatorium physicians again conducted a five-day clinic. The Department of Indian Affairs assisted with the X-ray services and the officials of the St. Mary's and St. Paul's Schools gave hearty co-operation. Some 234 persons were examined, and most of these had X-ray films made. Nine cases of definite tuberculosis were found and 31 were considered suspicious. It was gratifying to note the improvement shown by some of those considered suspicious in the 1930 survey, who had received particular care from those in charge. The importance to the Province of paying careful attention to the tuberculosis situation on the Indian Reserves cannot be over-emphasized if sources of infection are to be controlled.

Travelling Diagnostician.

Clinics were held in other places, and an effort was made to get in touch with as many practising physicians as possible. A detailed statement of this work is given in the statistical section.

Sanatorium.

The total patient days exceeded those of 1930 by 274. The average patient strength was 204, which is about a maximum on the basis of a 210-bed establishment. As in previous years, approximately 75% of the treatment was of hospital type.

During the year 407 patients received institutional treatment. Of the 203 patients admitted during the year, 102, or 50%, had a positive sputum, namely, tubercle bacilli in the sputum, on admission, 10 developed positive sputum during treatment, while 91 remained negative.

Results of Treatment.

The results of treatment, as in previous years, have varied with the stage of the disease.; 100% of those diagnosed as minimal or moderately advanced on admission and who remained for more than 31 days in the institution, were discharged as benefited. Approximately 50% of the far advanced were improved. Of all pulmonary tuberculosis cases who were treated more than 31 days and discharged during the year, 73% were improved during their stay in the institution, while 27% failed in health or died. Consideration of these figures once more emphasizes the fact that the less advanced the disease when treatment is started, the greater the possibility of recovery or improvement. It is then important both in the interest of the individual patient and of the community at large, that the disease be discovered in as early a stage as possible, and that unnecessary delay be avoided in starting treatment.

Length of Treatment.

It is apparent that a number of patients are being kept in the Sanatorium long past any period of improvement; in other words, Sanatorium beds are being occupied by patients in whom no further improvement is to be expected. The effectiveness of the institution as an active treatment hospital is being diminished because a proportion of its beds are being occupied by patients who might suitably be taken care of elsewhere if satisfactory provision was made.

LENGTH OF TREATMENT OF PATIENTS DISCHARGED IN 1931.

	Days.						
	31 or under	From 32 to 180	From 181 to 365	From 365 to 730	Over 2 Years.		
Number of patients	25	72	42	40	22		
Average days	17	106	264	509	1,317		

Accommodation.

No building or increased accommodation has been provided this year. The same need of sanatorium beds in this Province exists as in former years, and at the earliest possible moment beds should be provided. At present the waiting list makes necessary a delay of some months in the admission of a patient for treatment. The diagnostic services rendered, as well as those of the general medical profession, bring to light year by year a certain number of tuberculosis patients, but it is impossible in many cases to get them under any sort of treatment for months. The period of total incapacity is thereby increased and the possibility of recovery diminished.

Laboratory.

A full-time technician is employed. The number of examinations has shown a slight increase, and now numbers between 6,000

and 7,000 a year. The laboratory serves the public to the extent that sputum is examined free, and reports are made to the sender or physician.

Dental Department.

This work continues to be efficiently carried on by Dr. A. E. Heacock, Provincial Dentist. There were 593 patients examined, and 437 received treatment.

X-Ray Department.

The usual volume of work has been handled. New developments in X-ray technique have resulted in more and more reliance being placed on this type of examination, not only in the diagnosis of chest diseases, but also as a guide to treatment indicated for the specific type of disease present. X-ray examination affords us our most accurate estimation as to when tuberculosis is cured or the patient fit for discharge.

Nursing Branch.

The nursing staff consists of graduate nurses, and throughout the year no alterations have been made in the establishment. The work has been satisfactorily carried on during the year. It is gratifying to be able to report fewer changes in the personnel, and consequently a greater continuity of efficient service has been possible.

Dietary Department.

As is well known, nutrition plays a prominent part in the treatment of pulmonary tuberculosis, and throughout the year the dietary department has co-operated splendidly in maintaining a satisfactory standard. During the year the total number of meals served was 318,524, and the average cost of purchasing the food was 14.7 cents per person per meal.

Business Department.

While it is true that collections have fallen somewhat this year, it is also true that the cost of commodities has been much less, and by careful attention to detail the administration branch has been able to materially reduce the per diem cost of treatment.

Religious services have been held during the year, and have been most acceptable to patients and staff. We are indebted to Rev. Father MacDonald, the Very Reverend Dean Robinson, Rev. Captain Muncaster and Rev. Mr. Aldridge.

The Sanatorium has been the recipient of many gifts and services. Organizations and individuals have been most generous in providing entertainment and instruction, and gifts of various kinds. A list of our benefactors is to be found in the subsequent section. Grateful acknowledgement is made of the interest of our friends in this institution.

		4.3	.14146	71111 10	EII OILI,	1001						111
		CATI	ON O	F DISC	CHARGED	PATIEN	TS,	1931				
On Ad	lmission.		Total	l. T.B.	Reside Not over	ence. Over		0	n Di	scha	rge.	
T M D'		No	. %	%	31 days.	31 days.	A.	AA.	Q.	I.	U.	D.
I. No Disease II. Undiagnose		9			$\frac{4}{2}$	5 4						
III. Non-T.B		26		****	4	22		••••				3
IV. T.B. inacti	ve	8			2	6						
Total		49	24.4	••••	12	37						3
V. T.B. Pulmo	_											
1. Clinical (no ba Minimal	acilli foun A	d): 26			1	25		4	13	6	2	
112111111111111111111111111111111111111	В											
Mod. Adv.	C A	20				 18		 1				
mod. Huv.	В	3			1	2				2		
Far. Adv.	C A	 4			••••	 4					• • • • •	• • • •
2 011 11((1)	В	3		****	••••	3				3		
	C	1				1	••••	• • • • •	1		••••	****
Total		57	28.4	37.5	4	53		5	26	17	5	
2. Positive (baci		:										
Minimal	A B				****		• • • •	• • • •	···· į	• • • •		****
	C				••••							
Mod. Adv.	A B	$\frac{15}{3}$		• • • • •	****	$\frac{15}{3}$	• • • • •	1	8	6	• • • •	• • • •
	C			••••	****							
Far Adv.	A B	$\begin{array}{c} 16 \\ 23 \end{array}$		• • • •	••••	$\begin{array}{c} 16 \\ 23 \end{array}$		• • • • •	2 4	9 5	2	3 8
	C	22		••••	1	21			1	5	3	13
App. Hopeles	SS	9			7	2						9
Total	***********	88	43.8	57.9	8	80		1	15	28	11	33
Total Pul. T.B	. Active	145	72.2		12	133		6	41	45	16	33
VI. T.B. Non-Pu	lmonary	7	3.4	4.6	1	6			3	3		
Grand Total	1	201		****	25	176		6	44	48	16	36
Explanation of Abbreviations and terms used: The standard of classification is that of the National Tuberculosis Association. Minimal, moderately advanced and far advanced refer to anatomical extent of disease, while "A", "B", and "C" signify symptoms in order of increasing severity. "A" Arrested, "A.A." Apparently Arrested, "Q" Quiescent, "I" Improved, "U" Unimproved, and "D" Died. N.B.—Only those in residence over 31 days are classed as treated.												
TOTAL NUMI						INFIR			AVS			
D.P. and N.H				4,757		nd N.H						
				74,728							57,	086
Patients in Sana Patients treated Remaining in San	during 1	931 .				Milita: 12 26 8	ry.	1 3	ilian. 92 81 98		Tot 20 40 20	4 7
CLASSIF	FICATION	NO N	ADM	ISSION	OF 201	DISCHAI	RGEI	D PA	TIE	NTS		
No Disease Undiagnosed Non-Tuberculous Tuberculosis, Ins	· · · · · · · · · · · · · · · · · · ·			6 26	Tuberc Tuberc	ulosis, Pu ulosis, No	llmo n-P	nary ulmo	(Act	tive)	•••••	$\frac{145}{7}$ ${201}$
			33 "	TREAT:	ED CASES	" OF ACT	TIVE	PUI	LMO	NAR		201
On Admis	gion			2 O DEAT		On enefited.		eharg n–Ben			Died	1
Minimal					5	25	NOI	ı–вет		α.	D1e0	
Moderately Adva Far Advanced					8	38 34		1.1				
Apparently Hope					2	04		11			23 2	
				13	3	97		11			25	
	DIAG	NOS	IS OF		TUBERCU		SEC				20	
Arthritis and Br Abdominal Carci Lung Abscess Empyema-Pleura Bronchiectasis	conchiect nomatosi	asis .		1 3 1	Nephrit Pleuris Pneum Rheum Upper	tis y onitis atic Infectors Respirato Tonsils	tion	nfect	ion		• • • • • • • • • • • • • • • • • • • •	2 1 1 3
Debility				2	Pulmor	ary Fibro	osis					2
Oral Sepsis Pneumonoconiosi					Migraii	ne	•••••		• • • • • • • •		•••••	1
Pyrexia												26

LABORATOR	V PEPO	RT			
Sputum Examinations:	Sninb	I Fluid			. 20
In Patients2,746	Dlour	ol Fluid			. 130
Out Patients 101	Guine	a Pig Au	topsies .		. 31
Staff 5 2,852	Faece	9			. 2
Other Examinations: Urinalysis (Routine and Special) 2,209 Blood	Other	Examin	ations		6,225
					203
Number of patients admitted during 1931 Number with sputum positive on admission Number developing positive sputum here Number with sputum persistently negative Number not examined				10 89	
SUMMARY OF DEN					203
Patients Examined 593	Extract	ions			169
Patients Treated 437 Prophylaxis 152 Fillings 224	Plates				16
X-RAY F					
Radiographic:	Denta	aley		7	0 1
Chest		Bladder			2
Spine 27	Fluoros	conic:			- 947
Knee9		t, Gas Ca	ises	1,60	
Ankle			ol Study		3
Shoulder 1	Danin	m Series		2	- 1,906
Hand		im Enem			6
REPORT OF C	LINICS	HELD			
	No. of		New T.B	•	Total
a land and a	Clinics.	Exam.	Cases.	Suspects.	Exam.
Calgary Clinic	22	99	26	47	326
Medicine Hat	1 50	12 38	$\begin{array}{c} 17 \\ 26 \end{array}$	$\begin{array}{c} 36 \\ 20 \end{array}$	185 224
Throughout Province	34	19	39	35	339
Indian School, Cardston		••••	9	31	234 35
		-	135	197	1,608
					-,
HELIOTHERA Lamp Treatments:	APY REP	ORT	Men.	Women.	Total.
Under treatment Jan. 1, 1931			19	12	31
Began treatment during year Discontinued treatment during year			18 18	$\begin{array}{c} 20 \\ 22 \end{array}$	38 40
Under treatment Jan. 1, 1932 Total number treated during year			19 37	10 32	29 69
Total number of treatments			3,438	2,650	6,088
Sun Baths: Number treated	1/2 hours	•••••	6	22	28
Air Baths:	72 Hours	•			
Number treated			7	56	63
Solar Laryngoscopic Treatments: Number treated Number treatments, 2,832. Time, 238½	hours.		10	12	22
SUMMARY OF OPER	ATING	ROOM T	7OPK		
Pneumothorax:					
Number under treatment Jan. 1, 1931 Number new cases begun in 1931					21
Number old cases recommenced in 193 Number cases terminated in 1931	31	*************	• • • • • • • • • • • • • • • • • • • •		1
Number cases under treatment Dec. 3	1 1931				4.1
Number unsuccessful cases in 1931 . Pneumothorax refills					1 000
Initial Pneumothorax cases (Successfu Initial Pneumothorax cases (Unsuccess	11)				9.1
Aspiration of Fluid from Pleural Cavity (1	5 nation	ta)			0.4
" Fluid from Pleural Cavity (9 p	atients) .	277)	••••••	• • • • • • • • • • • • • • • • • • • •	19
" Fluid from Pleural Cavity, or "Fluid from Pleural Cavity, G	xygen rei	fill (4//)		• • • • • • • • • • • • • • • • • • • •	16
Irrigation of pleural cavity (1 patient) Gomenol Injections into pleural cavity (4)					-

Intravenous Injections of CaCl2			196
" Neosalversa	n		8
Saline		***************************************	1
Interstitial of Glucose Sol. (1 patient Intramuscular Injection of Bismuth)	***************************************	1
Intramuscular Injection of Bismuth	(1 pati	ent)	11
Rib Resections			2
Phrenic Avulsion Intratracheal Injection of Lipiodol			6
Lumbar Punctures (5 patients)			5 23
Bladder Lavages (1 patient)			33
Plaster of Paris Splint to Arm			1
Plaster of Paris Cast to Leg (2 pati	ents)		3
Plaster of Paris Splint to Hand		***************************************	1
Basal Metabolism Tests (14 patients)		***************************************	29
Examinations and Dressings	**********	***************************************	24
CLASSIFICATION OF	PATIE	NTS DISCHARGED IN 1931	
I.—SEX:		II.—SOCIAL:	
Male			0.0
Female		Married Single	
		Widows	
Total	201	Widowers	
TIT ACTOR		Total	201
III.—AGES:			
5 to 9 years of age	3	40 to 49 years of age	
10 to 14 years of age	7	50 to 59 years of age	
15 to 19 years of age	28	60 to 69 years of age	3
20 to 29 years of age	71 61	Total	0.01
ov to ov years or age	01	Total	201
IV.—RELIGION:			
Adventist	1	Pentecostal	1
Baptist	10	Presbyterian	23
Church of Christ	1	Roman Catholic	
Church of England	42	Salvation Army	
Greek Catholic	9	United	42
Greek Orthodox	5	Undenominational	
Hebrew	1	Not known	2
Mormon Lutheran	$\begin{array}{c} 1 \\ 17 \end{array}$	Total	201
Lutheran	11	Total	201
V.—OCCUPATIONS (Women):			
Cashier	2	Stenographer	7
Clerk	3	Teacher	
Housewife	47	No occupation	
Working at Home	5	Laundress	
Maid	8	Hairdresser	1
Nurse			
Nurse-in-Training		Total	107
Student	14		
VI.—OCCUPATIONS (Men):			
Blacksmith	1	Merchant	1
Bookkeeper		Miner	
Butcher		Manager	
Car Repairer		Mail Carrier	
Caretaker	1	Painter	1
Carpenter	2	Physician	
Clerk		Policeman	
Cooper Driver	$\frac{1}{2}$	Printer Steamfitter	1
Engineer	1	Student	6
Farmer		Salesman	3
Fisherman	1	Trainman	
Fox Farmer	1	Trapper	1
Furrier	1	Tinsmith	1
Gardener	1	Upholsterer	
Grain Buyer	1	Warehouseman	2
Hotel Proprietor	1	Weed Inspector	1
Linesman Labourer	1 11	Total	94
Mechanic	3	200011111111111111111111111111111111111	V 1
VII.—NATIVITY:			
Alberta	53	Lapland	1
Canada	43	Norway	4
Austria	4	Poland	5
Belgium	2	Russia	6
China England	$\begin{smallmatrix}1\\24\end{smallmatrix}$	Roumania Scotland	1 14
Galicia Galicia	1	Sweden	9
Holland	1	Switzerland	1
India	î	United States	22
Ireland	4	Ukrainia	3
Italy	1	Wales	5
Jugo-Slavia	1	(T) - 4 - 1	201
Japan	1	Total	201

WWW ADVICENCE OF DESIDENCE IN	ATDI	D.M.A.	
VIII.—LENGTH OF RESIDENCE IN			* *
Under 1 year	5	24 to 30 years	11
1 to 2 years	13	Over 30 years	3
3 to 5 years	22	Born in Alberta	53
5 to 9 years	19	Not known	1
10 to 14 years	17		
15 to 19 years	38	Total	201
20 to 24 years	19		
IX.—RACIAL ORIGIN:			
	1	Innones	1
Armenian	1 6	Japanese Laplander	1
Austrian	2	Norwegian	6
Belgian			5
Breed	2	Polish	1
Chinese	_	Portugese	8
Danish	1 2	Russian Slavic	2
Dutch			2
English	56	Swiss	6
Finnish	2	Swedish	
French	9	Scotch	30 12
German	9	Ukrainian	
Hungarian	1	Welsh	5
Irish	26	Not known	1
IndianItalian	2	Total	201
20011011	_	1000,1	201
RESIDENCE OF DI	SCHA	RGED PATIENTS, 1931	
CITIES:			
	A 4	M - 1' TT - 4	7.0
Calgary	44	Medicine Hat	10
Edmonton	42	Red Deer	1
Drumheller	3	Wetaskiwin	1
Lethbridge	3		
EQUING.			
TOWNS:			
Beverly	2	Ponoka	1
Camrose	1	St. Albert	1
Claresholm	2	Vegreville	2
Gleichen	1	Daysland	1
Hanna	- 1	Edson	1
Innisfail	1		
VILLAGES:			
Bawlf	1	Oyen	1
Burdett	1	Provost	2
Coalhurst	1	Willingdon	2
Champion	1	Rocky Mountain House	2
Lamont	1	Blood Indian Reserve	2
Newcastle	1	Transients	3
LOCAL IMPROVEMENT DISTRICTS:			
No. 67	1	No. 251	
No. 71	1	No. 251	2
No. 97	1	No. 434 No. 733	1
No. 155	1		1
No. 156	1	**	1
	2		1
No. 212 No. 247	3	No. 947 No. 1113	1
			1
MUNICIPAL DISTRICTS:			
No. 37, Sugar City	1	No. 458, Montgomery	1
No. 39, Kerr	2	No. 482, Vermilion Valley	î
No. 70, Livingstone	3	No. 487. Cornhill	2
No. 99, Argyle	1	No. 515, Norma	1
No. 158, Royal	2	No. 517. Clover Bar	î
No. 191, Stockland	1	No. 518, Strathcona	1
No. 245, Lonebutte	1	No. 520, Inga	î
No. 272, Golden Centre	1	No. 522. Rocky Ranids	1
No. 277, Michichi	1	No. 546. Wostok	1
No. 278, Carbon	4	No. 547. Leslie	2
No. 308, Ghost Pine	2	No. 974. St. Lana	1
No. 366, Dublin	1	No. 575, Vilna	1
No. 367, Waverly	1	No. 578. Onal	1
No. 401, Lochearn	1	No. 609, Pibroch	1
No. 424, Kinsella	1	No. 049, Spirit River	1
No. 425, Sterling	1	No. 857, Peace	1
No. 456, Parkland	-3	V	1

VISITS OF TRAVELLING DIAGNOSTICIAN

Place.		No. of Patients Examined.	Place.		No. of Patients Examined.
Camrose	2	29	Stettler	1	1
Lethbridge	4	151	Donalda	1	4
Coalhurst	3	13	Red Deer	1	3
Vulcan	2	31	Wetaskiwin	1	6
Macleod	1	8	Tofield	1	7
Granum	1	3	Ryley	1	i
Claresholm	1	4	Viking	ĩ	14
Drumheller	1	7	Wainwright	ĩ	2
Craigmyle	1	2	Provost	1	4
Wayne	1	1	Killam	1	4
Hanna	1	2	High River	1	13
Cereal	1	1	Lamont	1	9
Oyen	1	10			
Coronation	1	3	Total	3.4	339
Castor	1	6			

DONATIONS AND ENTERTAINMENTS, 1931

- ENTERTAINMENTS: Little Theatre Association; Mr. W. J. S. Walker; Mrs. E. J. Anderson, Concert Party (2 Concerts); Knox United Young Peoples' Society; Adlam College of Music; C.P.R. Choir; Adventist Young Peoples' Society; Elks' Band (2 Concerts); Grace Church Young Peoples' Society; Welsh Concert Party; Mr. H. Pollard; Salvation Army Band; The Dumbells; Women's Musical Club (2 Concerts); Military Chapter I.O.D.E.; Alice Murdoch Dancing Academy; Mr. B. N. Sanson, Banff; Band 1st Calgary Regiment.
- PASSES: Capitol Theatre; Palace Theatre; Mr. E. Richardson (for Stampede); His Worship the Mayor of Calgary (Stampede Parade).
- DRIVES: Mr. N. J. Christie; T. Eaton Co. (cars for Stampede Parade).
- CLOTHING REQUIRED FOR PATIENTS: Calgary Tuberculosis Society; Edmonton Civic Relief; Medicine Hat Civic Relief; The Canadian Legion.
- CHEQUES FOR CHRISTMAS CHEER: Samaritan Club; Capt. McPharchapter I.O.D.E.; Mr. H. C. Farthing; Alberta Military Institute; Branch 52, Canadian Legion; Lt.-Col. J. H. Woods.
- PARCELS FOR INDIVIDUAL PATIENTS: Red Cross Society; Calgary Tuberculosis Society; Edmonton Public Welfare Board; Catholic Women's League; Junior Catholic Women's League; Masonic Order; Military Chapter I.O.D.E.
- MISCELLANEOUS: Ontario Laundry; Mr. A. J. Weyers; Rotary Club; Y.W.C.T.U., Claresholm; Dr. J. B. McKay; Mr. D. A. Perry, Strathmore; Keystone Brotherhood; Army and Navy Club; also many donations of books and magazines.

ANNUAL REPORT

OF THE

Vital Statistics Branch

OF THE

DEPARTMENT OF PUBLIC HEALTH
PROVINCE OF ALBERTA
1931

TROTUR JAUNHA

time no

Vital Statistics Branch

TOTAL SECTION

DEPARTMENT OF PUBLIC HEALTH

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VITAL STATISTICS BRANCH

(Donald Mackie, Deputy Registrar General)

The population of the Province of Alberta in the middle of the year 1931 was, according to the Dominion Census, 731,605.

Living births registered in Alberta during the year numbered 17,252, being a birth rate of 23.57 per 1,000 population, and is 397 less than the number for the preceding year.

Of the 17,252 children whose births were registered, 8,938 were males and 8,314 were females, the ratio of male to female children being 1,075 males to 1,000 females, the average ratio for the previous ten years being 1,049 males to 1,000 females. There were 532 twins and 9 triplets. The illegitimate children registered during the year numbered 635 or 3.7 per cent. of the births; this being 78 more than the number for the preceding year.

Of the total births registered, 7,928 occurred in the cities and towns of over 1,000 population, 8,616 in the rural districts, and 708 were Indians. The births registered in the four large cities are as follows: Edmonton 2,400, Calgary 1,885, Lethbridge 572, and Medicine Hat 401.

For comparison, the following are the birth rates in the Canadian Provinces for the year 1931:

Canada	23.2	Ontario	20.2
Prince Edward Island	21.4	Manitoba	20.5
Nova Scotia	22.5	Saskatchewan	23.1
New Brunswick	26.5	Alberta	23.6
Quebec	29.1	British Columbia	14.9

Marriages registered in Alberta during the year numbered 5,142. This number is 192 less than that of the previous year, and 122 less than the average of the 5 preceding years, and constitutes a rate of 7.02 per 1,000 population, which is still the highest marriage rate in any Canadian Province, the rate for Canada and the Provinces being as follows for the year 1931:

Canada	6.4	Ontario	6.9
Prince Edward Island	5.6	Manitoba	7.0
Nova Scotia	6.6	Saskatchewan	6.2
New Brunswick	6.2	Alberta	7.0
Quebec	5.8	British Columbia	5.6

There were 139 brides 16 years of age and under, 1,294 brides between the ages of 17 and 19, 2,268 between the ages of 20 and 24, 19 brides and 44 grooms were over 60 years of age, 10 of the grooms and 7 of the brides being over 70 years. The marriages in the four large cities were as follows: Edmonton 1,214, Calgary 1,039, Lethbridge 213, and Medicine Hat 143.

The divorces made absolute during the year numbered 156, which is 5 more than the number for the previous year, and 1 more than the average for the preceding 5 years; 69 were granted to husbands and 87 to wives.

The deaths of 5,302 persons (including Indians) were registered in Alberta during the year 1931, of whom 3,095 were males and 2,207 were females. This number is 194 less than in the pre-

vious year, and constitutes a death rate of 7.24 per 1,000 population, being a decrease of 1.09 compared with the previous year. This rate is the lowest provincial rate in Canada with the exception of the Province of Saskatchewan. The following are the death rates for the various provinces during the year 1931:

Canada	10.1	Ontario	10.4
Prince Edward Island	10.4	Manitoba	7.6
Nova Scotia		Saskatchewan	6.6
New Brunswick	11.4	Alberta	
Quebec	12.0	British Columbia	8.8

Amongst the various causes of death, Hearth Disease was again in the lead with a percentage of 9.49 of the total deaths, a decrease from the previous year's total of .77. Cancer was again second, accounting for 8.32 of the total deaths, being a decrease of .43 from the previous year. Pneumonia was third with 7.73 of the total deaths, being a decrease of .79, and Violent Deaths was again fourth with 7.70, a decrease of .72, representing 55 less deaths from violence. Influenza, which has increased from 2.37 of the total deaths in 1930 to 3.51 in 1931, is still considerably under the average of previous years. There has been a marked decrease in Puerperal Deaths, the number having dropped from 114 to 87, being 33 less in the total deaths and an actual decrease in this class of 24 per cent. Deaths from contagious diseases again show a satisfactory decline in practically all causes.

The following table shows in order of frequency those causes of death which during the year or in previous years accounted for at least 1 per cent. of the total deaths. Both the actual numbers and the percentage of each is given, together with the figures for the three preceding years, for purposes of comparison.

	19	31	19	30	19	29	19	28
Causes of Death	Number	Per cent. of Total.	Number	Per cent. of Total	Number	Per cent. of Total	Number	Per cent. of Total
Diseases of the Heart Malignant Tumors	441	9.49 8.32	482		564 452	9.05 7.25	549 415	9.63
Pneumonia (all forms)	410	7.73	468 463	8.52	561 474	9.00 7.60	471 460	8.26
excepted)Pulmonary Tuberculosis	389 306	7.34 5.77	$\frac{252}{321}$	4.59 5.84	223 321	3.57 5.15	257 255	4.52
Influenza Nephritis Diarrhoea and Enteritis (under 2 yrs. of age)	168	3.51	130 172	3.13	429	6.88	315 229	5.53
Appendicitis Apoplexy	132	2.89 2.49 2.38	128 137 116	2.33 2.49 2.11	145 152 131	2.32 2.44 2.10	124 126 123	2.18 2.21 2.16
Suicides Diseases and Accidents of Pregnancy	123 87	2.32	113	2.06	84	1.35	88	1.54
Whooping Cough Diphtheria	32 25	.60	51 30	.93	90 64	1.12	45 50	.79
Typhoid Fever Scarlet Fever Measles	16 8	.30 .15	16 31 13	.29	26 45 82	.42	26 25 19	.46

The foregoing list comprises 3,520 deaths, and amounts to 66.4 per cent. of the total deaths for the year.

The deaths of children less than one year old numbered 1,197, being 75 more than the previous year. This constitutes an infantile mortality rate of 69.4 per 1,000 births, an increase of 5.9 over the previous year, but is 5.3 less than that of the average of the 5 preceding years.

The following table gives for the purposes of comparison the infantile mortality rate in the undernoted provinces for the year 1931:

Canada	84.8	Ontario	69.8
Prince Edward Island		Manitoba	64.3
Nova Scotia	78.8	Saskatchewan	69.0
New Brunswick	87.4	Alberta	69.4
Quehec	1129	British Columbia	497

There was again an increase in deaths by suicides, the number being 123 compared with 113 for the previous year. Deaths by murder and manslaughter were 25, an increase of 3 over the previous year. Stillbirths decreased to 453 as compared with 525 for the year 1930.

DIVISIONS OF ALBERTA FOR CENSUS AND VITAL STATISTIC PURPOSES

As the Province of Alberta is not divided into Counties, and the political divisions are not permanently fixed, it has been found advisable to use as smaller areas the Dominion Census Divisions.

These Divisions are fixed, and as the population increases, may be subdivided without destroying their value for purposes of Vital Statistic comparison with preceding years.

The following table shows these Census areas divided into Municipalities, Local Improvement Districts, Cities, Towns and Villages with the 1931 and 1926 official Division population figures.

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926

Census Divisions and	Popu	lation	Census Divisions and		ation
Municipalities	1931	1926	Municipalities	1931	1926
Province	731,605	607,599	Division No. 2—Continued:	j	
Sininian RI 1. Madinian Hat	20 040	25 624	Towns—Continued:	1	
Division No. 1: Medicine Hat		25,624 64	Colomon	1,704	2,04
2 L.I.D.		134	Coleman Diamond City	119	25
3 L.I.D		127	Granum	329	2
		554	Macleod	1,447	1,7
4 L.I.D		876	Magrath	1,224	1,2
6 L.I.D.		482	Pincher Creek	1,024	1,0
31 L.I.D		38	Raymond	1,849	1,7
		531	Villages	2,161	1,9
32 L.I.D		513	Coaldale	251	1,0
33 Flowery Plains	793	773	Coalhurst	953	7
34 Burlington 35 L.I.D	1	215	Cowley	151	i
36 Warner		956	Frank	268	2
61 L.I.D.		799	Monarch	117	4
32 L.I.D		682	Pincher City	45	
33 L.I.D		449	Stirling	376	3
64 Forty Mile		1.118	Notified the second	0.0	Ü
55 Eureka		779	Division No. 3: Bow	15,066	12,1
66 L.I.D.			96 McLean	713	6
1 L.I.D.			121 L.I.D.	452	3
2 Excelsior		776	122 L.I.D.	357	3
93 L.I.D.		612	123 Sunny South	209	1
4 Bow Island		542	124 L.I.D.	30	
Cities		9,536	125 L.I.D	713	1
Medicine Hat		9,536	126 L.I.D	620	4
Towns	1,827	1,851	151 L.I.D	1,097	8
Bow Island		299	152 L.I.D.	129	1
Irvine	234	210	153 King	135	1
Taber	1,279	1,342	154 L.I.D.	620	1
Villages		746	155 L.I.D.	772	6
Burdett	121	112	156 L.I.D.	673	6
Milk River		211	181 L.I.D.	1,304	1,1
Warner	342	313	182 L.I.D.	349	3
			183 Britannia	477	4
ivision No. 2: Macleod		51,103	184 L.I.D.	169	1 1
7 L.I.D			185 L.I.D	1,634	1,2
8 L.I.D			186 L.I.D		4
9 L.I.D			211 L.I.D. Towns	2,515	2,2
O Cochrane			Bassano	615	4,4
37 Sugar City	1,993		Brooks	708	5
88 L.I.D	1,276 2,007	1,156 1,522	Redcliffe	1,192	9
39 Kerr			Villages	747	8
10 Castle River			Alderson	81	
88 L.I.D				114	1
88 L.I.D	1,442		Empress	314	3
70 Livingstone		1,511	Enchant	92	
71 L.I.D			Jenner	62	
99 Argyle			Retlaw	84	
00 L.I.D.					
01 L.I.D.	192	149	Division No. 4: Nanton	29,067	24,7
Indian Reserves			97 L.I.D.	2,258	1,4
Cities		10,735	98 Little Bow	1,589	1,5
Lethbridge	13,489	10,735	127 Clifton	1,043	8
Towns		12.924	128 Harmony	1,157	1,1
Blairmore		1,609	129 Clear Lake	2,231	2,1
Cardston	1	2,034	130 L.I.D	395	3
Claresholm			131 L.I.D	46	

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICI-PALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

Census Divisions and	Popul	ation	Census Divisions and	Population	
Municipalities	1931	1926	Municipalities	1931	192
vivision No. 4—Continued:			Division No. 6—Continued:	1	
57 Marquis	1,923	2,147	279 Norquay	2,170	2,3
58 Royal	1,751	1,802	280 Rosebud	2,177	2,1
59 Riley	1,959	2,052 305	281 Beaver Dam	1,926	1,6
60 L.I.D.	381	39	282 L.I.D	2,129	2.2
89 Dinton	1,990	1.855	309 Stauffer	2,027	1,9
90 Sheep Creek	1,988	1,861	310 Mountain View		2,3
91 Stockland	2,907	1,779	311 Westerdale	2,420	2,2
92 L.I.D	8	4 0 2 5	Unorganized parts		1,9
Towns	4,343	4,035	Indian Reserves Banff		1,6 2,2
Carmangay High River	1,459	1,377	Cities		67,8
Nanton		729	Calgary		65,2
Okotoks	760	579	_ Drumheller		2,5
Stavely		285	Towns		3,4
Vulcan		775 1,306	Didsbury		7 5
Villages	293	1,500	Olds		1,0
Barons	1 !	256	Strathmore		5
Black Diamond	683		Three Hills	581	5
Blackie	251	289	Villages	3,965	3,7
Cayley Champion		191 287	Acme Airdrie		2
Lomond		147	Beiseker		2
Milo	1		Carbon		4
Nobleford	143	136	Carstairs	387	3
Turner Valley	656	š	Cluny		1
ivisian No E. Acadia	26,651	27,247	Cochrane Crossfield		2 3
ivision No. 5: Acadia 12 L.I.D		591	Hussar		0
13 L.I.D.		374	Irricana		1
14 Berry Creek		534	Langdon		
15 Bulyea		336	Newcastle		2
41 Acadia42 Cereal		841 1,025	Rockyford		1
43 Collholme		711	Standard		2
44 Flowerdale		718	Swalwell		
45 Lonebutte	613	637	Trochu	506	4
46 L.I.D		308	D	-0.400	
71 Bertawan		1,229			35,9
72 Golden Centre73 Sounding Creek		1,130 752			1,1
74 Richdale		721	333 L.I.D.		1,1
75 Hand Hills	1,189	1,099			1,8
77 Michichi		2,015			1 2
01 Canmer 02 Stewart		1,035 857	361 Rosenheim 362 Hillcrest		1,5
03 Wiste		1,073	363 Stocks		1.1
04 Hiram		617	364 Flagstaff		1,8
05 Dowling Lake			365 Progress		1,8
06 Lambton		1,694	391 Sifton		1,
07 Starland		1,378 4,435			1,1
Hanna					1,2
Youngstown	372	457	395 Wheatland	1,819	1,6
Villages		1,787			1,8
Cereal Chinook		150			1,4
Craigmyle		232			1,0
Delia		329			2,1
Morrin	149	162			1,9
Munson		223			2,8
Oyen		346			(
Rumsey		89			F
			Wainwright	1,147	1,0
Division No. 6: Calgary	140,624	114,841	Villages	4,603	
16 L.I.D	. 520	297	Alliance		2
17 L.I.D		977	Cadogan]
19 Bow Valley		1,981			
20 Shepard	3,048	2,470	Consort	299	
21 Springbank	2,166	1,716	Czar	140	
222 L.I.D	. 438	372			
247 L.I.D.		945			2
248 Grasswold 249 Keoma					
250 Beddington					1
251 L.I.D	. 1,427	931	Killam	326	5
252 L.I.D	. 277	249	Lougheed	. 218	6

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

Census Divisions and	Popu	lation	Census Divisions and	Popu	opulation	
Municipalities	1931	1926	Municipalities	1931	1926	
Division No. 7—Continued: Provost Sedgewick Strome Veteran Viking		476 362 182 167 447	Division No. 9—Continued: Unorganized parts Indian Reserves Jasper Villages Bentley Bowden	249 1,230 2,319 233	1,70 9: 1,92 2: 20	
Division No. 8: Red Deer	1,705 1,074 2,364 2,098	57,693 1,592 1,140 2,458 1,974 1,952	Eckville North Red Deer Rimbey Rocky Mt. House Sylvan Lake	169 318 304 646	1 2 2 4 2	
66 Dublin 67 Waverly 96 Haig 97 Lakeside 98 Lamerton 99 Crown 26 Melrose 27 Evergreen 28 Waterglen 29 Fertile Valley 56 Parkland 57 Lloyd George 58 Montgomery 59 Bigstone Indian Reserves Cities Red Deer Wetaskiwin Towns Big Valley Camrose Daysland Innisfali Lacombe Ponoka Stettler Villages Alix Bashaw Bawlf Bittern Lake Blackfalds Botha Clive Delburne Donalda Edberg Elnora Erskine	1,495 1,995 1,622 2,205 3,683 2,971 2,597 1,141 2,791 1,2791 1,142 2,125 7,455 2,258 404 1,259 3,842 1,259 3,842 1,219 3,842 1,219 3,842 1,219 3,842 1,219 3,842 1,219	1,356 1,839 1,456 1,517	451 Merton 452 Grizzly Bear 453 Buffalo Coulee 454 Lakeview 481 Wellington 482 Vermilion Valley 483 Melberta 484 Birch Lake 485 Patricia 486 Beaver Lake 511 Streamstown 512 Ethelwyn 513 Ukrainia 514 Sobor	1,792 1,396 1,292 1,525 1,888 1,843 1,992 2,312 2,111 3,028 2,254 3,326 3,201 4,464 4,100 4,584 5,39 1,659 1,270 4,468 115 280 284 107 230	51,8 1,2 9 1,0 1,3 1,5 1,4 1,6 2,1 1,7 2,9 1,7 2,4 8,8 3,3 3,3 4,5 3,8 4,5 3,8 3,3 3,3 1,2 2,1 1,2 2,1 1,2 3,6 6 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2	
Ferintosh Gadsby Halkirk Heisler Millet Mirror	161 144 160 125 300 534	126 162 165 113 241	Ranfurly Ryley Two Hills Willingdon	122 236 149 250	22	
New Norway Ohaton Penhold	142 69 125	431 137 74 161	Division No. 11: Edmonton 487 Cornhill	2,753 3,797 4,662 2,603	2,3 3,3 4,5 1,4	
ivision No. 9: Rocky Mountain House 12 Waterloo 41 Poplar Grove 42 Raven 43 Prairie Creek 44 L.I.D. 71 Golden West 100 Lorne 11 Lochearn 103 L.I.D. 108 Blindman 11 Last West 12 L.I.D. 134 L.I.D. 140 Columbia 151 L.I.D. 152 L.I.D. 155 L.I.D.	24,503 1,008 2,540 1,712 610 48 2,266 2,284 2,221 347 1,376 1,074 17 24 366 1,104 712 101	20,024 665 2,366 1,447 528 17 2,110 2,162 2,052 269 1,439 894 99 9324 742 344	491 L.I.D. 517 Clover Bar 518 Strathcona 519 Spruce Grove 520 Inga 521 Tomahawk 548 Sturgeon 549 Ray 550 Woodford 551 Morthen Indian Reserves Cities Edmonton Towns Beverly Fort Saskatchewan Leduc Morinville St. Albert	2,907 2,754 3,555 3,499 2,851 1,432 4,302 3,558 2,408 2,224 336 79,197 5,401 1,111 1,001 900 570 825	2,8; 3,3; 3,1; 2,5; 6; 3,7; 8,2; 2,0; 1,8; 65,1; 65,1; 4,9; 94,8; 66,8;	

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

Census Divisions and	Popul	lation	Census Divisions and	Popul	ation
Municipalities	1931	1926	Municipalities	1931	1926
Division No. 11—Continued:			Division No. 14—Continued:		
Villages	593		581 Pershing	1,664	93
Alberta Beach Hay Lakes			606 L.I.D. 607 L.I.D.	131 887	52 52
Onoway			608 Tawatinaw	8,147	1,16
Seba Beach	41	<i>-</i>	609 Pibroch	2,210	1,66
Spruce Grove		104	610 Shoal Creek	2,095	1,45
Wabamun	164	194	611 L.I.D	406 217	13 11
Division No. 12: Edson	13,815	10,968	637 Cartier	1,273	89
193 L.I.D	4	4	638 Nelson	1,486	87
196 L.I.D	902 1,148	664 343	639 L.I.D. 640 L.I.D.	757 687	39 27
23 L.I.D	13	4	665 L.I.D.	1,130	82
525 L.I.D	24	29	667 L.I.D.	1,342	64
526 L.I.D	$\frac{116}{244}$	156 114	668 Grosmont 669 L.I.D.	886 79	46 13
552 Pembina	2,041	1,212	696 L.I.D.	144	3
553 L.I.D	728	319	697 L.I.D.	499	28
54 L.I.D	685 655	$\frac{341}{357}$	698 L.I.D.	40 357	10
56 L.I.D.	274	249	726 L.I.D.	274	10
557 L.I.D.			727 L.I.D	76	6
558 L.I.D	2,340	$\frac{70}{1,906}$	728 T. 71-74, R. 22-24,		
883 L.I.D	654	736	W. 4, N. of Athabasca R		2
84 L.I.D.	543	349	729 L.I.D	120	5
586 T. 56-59, R. 19-22, W. 5, and S.E. of			Towns	573	43
Athabasca R		3	Athabasca Villages	573 1,973	43 1,62
87 T 56-58 R 21-24			Barrhead	222	
W. 5, and W. of Ath-			Clyde	186	17
abasca R. and St. Berland R.			Lac la Biche Legal	313 350	43 30
588 L.I.D	6	*****	Smoky Lake	366	31
312 L.I.D.	341	254	Westlock	536	39
Territorial Units 615, 585	12	13	Division No. 15: Clearwater	13,664	6,328
Unorganized parts	1,133	2,182	613 L.I.D.	53	0,020
Towns		1,493		543	16
Edson Villages	1,547	1,493 170	642 L.I.D. 705 L.I.D.	9 24	
Entwistle		170	706 L.I.D.	270	2:
Mayerthorpe	159	• • • • • • • • • • • • • • • • • • • •	707 L.I.D	141	9
Division No. 13: Beaver R	24,936	17,174	708 L.I.D. 709 L.I.D.	25 42	2
541 L.I.D	745	492	710 L.I.D	78	****
542 Lincoln 543 Laurier	933	631	730 L.I.D	175	11
44 Champlain	2,257	2,210 1,562	731 L.I.D	363 578	30 42
71 L.I.D	65	5	733 L.I.D	504	30
72 Bonnyville 73 St. Vincent	1,419 2,554	915 1,826	734 L.I.D. 735 L.I.D.	149 147	2
74 St. Lina	817	509	735 L.I.D. 736 L.I.D.	41	
75 Vilna	3,756	3,502	737 L.I.D	23	
01 L.I.D	760 1,105	$\frac{136}{314}$	738 L.I.D	414	7
03 L.I.D.	615	160	764 L.I.D	1,333	56 39
04 L.I.D		161	766 L.I.D	503	5
05 Ashmont	1,616	$\frac{1,327}{350}$	767 L.I.D	24 141	E
333 L.I.D.	82	33	794 L.I.D. 795 L.I.D.	648	30
34 L.I.D.	186	111	796 L.I.D.	2,408	1,06
35 L.I.D		239	824 L.I.D	10	
64 L.I.D.		14	825 L.I.D. 826 L.I.D.	215 891	22
66 L.I.D.	320	146	855 L.I.D	477	208
795 L.I.D	218	66	676, 677, 678, 679, 622, 670, and other parts.	47	2
661	5	3	Indian Reserves	909	84
Indian Reserves	1,514	1,398	Towns	1,125	93
Villages Bellis	1,568	1,064	Grouard	261 864	348
Bonnyville	362	******	Peace River	253	582
St. Paul de Metis	938	933	Falher	253	
Vilna	151	131	Division No. 16: Peace River	27,945	11,35
Division No. 14: Sturgeon	39,508	29,062	739 Grande Prairie	2,389	1,27
576 Smoky Lake	4,268	4,161	741 L.I.D	1,566	638
577 Unity		4,0 1 9 2,924	742 L.I.D	460	16
779 Hazelwood			769 L.I.D.	514 871	23
80 Lockerbie			771 L.I.D.	1,730	771

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

Census Divisions and	Popul	ation	Census Divisions and	Popula	ation
Municipalities	1931	1926	Municipalities	1931	1926
Division No. 16—Continued:			Division No. 16—Continued:		
72 L.I.D.	1,358			24	1
97 L.I.D.	549	108	Unorganized parts	. 72	
00 L.I.D	296	77	Indian Reserves	1,068	20
01 L.I.D.	167	******		1,464	91
27 L.I.D.	161	3	Grande Prairie	1,464	91
28 L.I.D.	381	149	1 -10-18 1111111111111111111111111111	1,715	24
29 Spirit River	1,800	893		211	
30 L.I.D	738	77	Clairmont	110	7
31 L.I.D	487	34	Fairview	260	****
57 Peace	1,990	1,377	Grimshaw	137	****
58 Fairview	2,264	1,507	Hythe	278	
59 L.I.D	519	84	Sexsmith	304	1.0
86 L.I.D	508	150	Spirit River	232	16
87 L.I.D	525	160	Wembley	183	• • • •
88 L.I.D	581	21	D BY 4.7 3	= =00	4.04
89 L.I.D	425	29	Division No. 17: Athabasca	5,788	4,84
90 L.I.D	34	, 18	Remainder of the Province	1	
91 L.I.D	77	12/	1	4 9 1 9	0.04
016 L.I.D	231			4,312	3,04
17 L.I.D.	298	had	Indian Reserves	1,476	1,79

TABLE 1.—GENERAL SUMMARY OF BIRTHS, MARRIAGES AND DEATHS IN DIVISIONS, CITIES AND TOWNS OF 1,000 POPULATION AND OVER, ALBERTA, 1931

Marriages

TABLE 1.-GENERAL SUMMARY OF BIRTHS, MARRIAGES AND DEATHS IN DIVISIONS, CITIES AND TOWNS OF 1,000 POPULATION AND OVER,

10 10 40 00 1 1 10 14 10 4 4 0 Stillborn 5 years and over Ē 01024824485 M H H H H 10 1-4 years ᄕ ::::==== M. HHHE40000HH : 0HOHH DEATHS 됴 Under 1 year :4481111414100488 M. ALBERTA, 1931-Continued 됴 All Ages 85-08684784 111 11211 85-08684784 111 11211 M. Total 됴 Births (Exclusive of S births) 88888666488888418484888 1886646887681848668 M. Total Lacombe
Macleod
Magrath
Olds
Pincher Greek
Raymond
Redeliff
Stettler
Taber
Vegreville
Vermilon
Wainwright Divisions, Cities and Towns Grande Prairie Hanna High River Fort Saskatchewan Coleman Innisfail Edson

TABLE No. 2-BIRTHS (EXCLUSIVE OF STILLBIRTHS) BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS, ALBERTA, 1931

		1386 783 603	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7440 € 746 € € € € € € € € € € € € € € € € € € €	222	844 844	36 111 111
	December						
	November	1318 721 597	2322	000 000 000 000 000 000 000 000 000 00	24	34	26 17 9
	October	1404 752 652	842 842 842 842	6 6 6 1 1 1 1 1 1 1 1 1 1	22 21 1	35 12 12 12	22 16 6
	September	1424 815 609	2 3 3 8 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	110 884 1040 844 1040 1040 1040 1040 104	30 29 1	224 18 6 6	36 22 14 14
	1sn3n∀	1487 805 682	66 845 89 6	22 440 644 666 666 667 667	188	252 16	22 20 0
rhs	July	1480 783 697	63 14 49 7	130 100 100 100 100 100 100 100 100 100	27 27 1	36 24 12 12	31 17 14 14
MONTHS	gung	1474 800 674	224 36 36 96	1 2 5 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23	27.2	26
	May	1534 810 724	8 12 4 80 8 12 4 10 00	8 8 8 8 8 8 8 8 8 8	288	82 4 80 ∞	36 25 11
	lingA	1483 818 665	8 4 4 m c	220044 8044 11100 8004 8004 8004 8004 8004	N 0 0 00	339 14 14	27 14 13
	Магећ	1504 807 697	39 39 32	## ## ## ## ## ## ## ## ## ## ## ## ##	20 20 1	40 27 13 13	44 28 16 16
	February	1322 687 635	61 47 47 32 15	100 100 100 100 100 100 100 100 100 100	277	25	37 22 15 15
	January	1436 743 693	38 38 31 31	11 22 4 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	22 42 80 80	36 25 111	32 18 14 14
	Total	17252 9324 7928	717 227 490 401 89	13.00 13.00 11.00	310 292 18 18	414 286 128	255 139 139
		ALBERTA Rural Urban	DIVISION No. 1—MEDICINE HAT Rural Urban City of Medicine Hat Town of Taber	BIVISION No. 2—MACLEOD Rural Urban City of Lethbridge Town of Blairmore Cardston Cardston Claresholm Coleman Macleod Macleod Magrath Pincher Creek Raymond	DIVISION No. 3—BOW Rural Urban Town of Redcliff	DIVISION No. 4—NANTON Rural Urban Town of High River.	DIVISION No. 5—ACADIA Rural Urban Town of Hanna

Continued.
1931
, ALBERTA,
Z DIVISIONS,
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CLASSIFIED A
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F STILLBIRTHS) I
(EXCLUSIVE 0
2.—BIRTHS
[ABLE :

	December	243 67 176 152 18	71 64 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28	122 97 25 17 8	282 72 210 202
-	November	209 1 69 1 37 2 3	65	101 174 42880000	33	124 100 24 18 6	276 65 201 208
-	October	231 180 157 20 20 3	69	964 001 01 01 01 01 01 01 01 01 01 01 01 01	40	123 87 23 13	280 79 201 197
	September	24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	94 88 80 80 80	477 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	34	1152 1153 118 18	248 69 179 174
-	deuguA	25.2 19.4 19.4 10.0 10.0	778	004 465 110 110 110 111	31	92 22 13 9	270 67 203 197
THS	July	271 76 195 164 164 10	74 67	0 4 4 HI 10 1 8 8 8 8 4 0 10 8	31	30 30 11 11	292 85 207 201
MONTHS	quuç	262 210 177 177 10	00 to ro	808000FFF	36	123 96 27 16 11	286 82 204 200
	May	250 191 159 255	0000	122 65 65 10 10 10 10 10	8 80 80 80	116 80 36 23 13	317 883 234 227
	lirgA	265 65 200 167 22 11	73 8 8	01 088 014 014 088	44	125 103 22 12 10	261 69 192 189
	Матећ	250 190 888 888 888	73 60 13 13	128 118 128 118 118	34	126 100 26 15	298 81 217 213
	February	214 163 140 19	1244	0000 0000 0000 0000 0000 0000 0000 0000 0000	30	27 70 119 8	265 196 188 188
	January	264 205 1688 2888 2888	3000	7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00	288	148 113 35 23 12	284 78 206 204 204
	Total	2964 704 2260 1885 276 99	733 75	1276 645 631 101 1101 1126 93	403	1478 1141 337 216 121	3359 899 2460 2400
		DIVISION No. 6—CALGARY Rural Urban City of Calgary Drumheller Town of Olds.	DIVISION No. 7—BATTLE RIVER Rural Urban Town of Wainwright	DIVISION No. 8—RED DEER Rural Urban City of Red Deer Wetaskiwin Town of Camrose Innistal Lacombe Stettler	DIVISION No. 9—ROCKY MOUNTAIN HOUSE	DIVISION No. 10—VICTORIA Rural Urban Town of Vegreville Vermilion	DIVISION No. 11—EDMONTON Rural Urban City of Edmonton Town of Beverly

422	76	88 88	37	00 00 00 00	12
110 111 111	71	88	29	13 13 18 18	14
20 16 4	76	93	35	54 14 14 14	7
200 m m m m m m m m m m m m m m m m m m	61	96	35	56 121 122	18
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	80 80 10 10	107	3 8 8 8 8	7. 4 4 0 ∞ ∞	12
26 112 12	80 80	8 85	41	62 46 16	12
20 20 6 6	99	98	37	67 53 14	19
34 10 10 10	84	06	36	78 69 9	11
21 88 8	17	114	30	61 19	21
15	73	86	35	68 49 19	27
823 9 6	62	91	32	73 24 24	21
172	61	78	34	64 19 19	20
292 223 69 69	871 871	1115	419	742 566 176 176	194
DIVISION No. 12—EDSON Rural Urban Town of Edson	DIVISION No. 13—BEAVER RIVER Rural	DIVISION No. 14—STURGEON	DIVISION No. 15—CLEARWATER Rural	DIVISION No. 16—PEACE RIVER Rural Urban Town of Grande Prairie	DIVISION No. 17—ATHABASCA Rural

TABLE 3.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE FOR THE PROVINCE AND IN CITIES AND TOWNS OF 5000 POPULATION AND OVER, 1931

	Total Births			Legitimate			Illegitimate		
Province, Cities and Towns	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province	17252	8938	8314	16617	8600	8017	635	338	297
Cities and Towns:								1	
Calgary	1885	963	922	1755	897	858	130	66	64
Edmonton	2400	1262	1138	2148	1128	1020	252	134	118
Lethbridge	572	304	268	563	302	261	9	2	7
Medicine Hat	401	213	188	398	210	188	3	3	_

TABLE 4.—PLURAL BIRTHS CLASSIFIED TO SHOW NUMBER OF CHILDREN BORN ALIVE AND STILLBORN BY SEX, ALBERTA, 1931

	Total
	266
	72
	78
	90 10
	5
	2
	4 2 3 1
	1
	1
	3
	1
	2
Number	541
	259
remale	282
Number	16744
Male	8700
Female	8044
Number	420
	257
Female	163
	17433
	Number Male Female Number Male Female Number

TABLE 5.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO BIRTHPLACE OF PARENTS, FOR ALBERTA, 1931

		Not Specified			- -	0
		United States Various	88 11 13 3 1 1 1 3 3 1 1 1 3 3 1 1 1 3 3 1 1 1 1 3 1	1 281 1 28 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 6	312 9 8 8 1 113 1 17 1 23 1 6 1
	is	Отрек		11 1 1 1 1 1 2		
	Asia	China and a sagat				
		Other	0 1 1 80 1 10	000111		271
		тэрэмЗ	91 19 8 8 8 1 1	00 10 10	- -	64
		RissuA	07 11 11 12 14 44 8	1 00 00 co		763
		Roumania	0 4 10	40-1	111	271
		Poland	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4001		1336 119 22 22 22 22
		Norway	4 0 10000 11	54 8		125
	Europe	Italy	2 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1010		2.6
	图	Hungary	2 2 2 4	401011		33 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Germany	24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1000000	2 2	81 58
		France	87 104 HH	98 27 =		1911
Mother		Finland	1	1 1 1 1 1 1 1 1 1 1		2 30 1 1 25 1 1 1 1 25 1 1 1 1 25 1 1 1 1 25 1 1 1 1
1		Denmark	0 22 22 1 1 1 1 1 1	987811	- 1 1 1	8 8 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Jo e		Austria Belgium	24 27 11 1	484		011
plac	suois	Отрек	0 1 1 2	884411		2 3 9 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Birthplace	British Posses-	Newf'ndland	4 1 60	21 1	es es	
Bi	80	Отры	[2] [2]	2 1 2		
	Isles	Wales	0 1 2 9 1 1 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	44 67 7 2 8 2 5 2 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5	3752	8
	British	Scotland	1 0 0 0 1 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	2 2 11 2 2 11 2 2 2 2 2 2 2 2 2 2 2 2 2	23 64 613	22 22 23 25 25 25 25 25
		England Ireland	11128 11229 1229 12321 100 100 100 100 100 100 100 100 100 1	25 25 25 25 25 25 25 25 25 25 25 25 25 2	13	77 2889 477 11 12 11
		beilised	φ H	11 00		
		British Columbia Prov. not	80 11 11 11 11 11 11 11	22111221	2 2	14
		Alberta	2195 233 244 299 104 104 263 383 383 383 383 383 383 383 383 383 3	406 248 39 102 16	10	794 163 8 12 12 8 7 7 36
		Saskatch- ewan	216	100 100 100 100 100 100 100 100 100 100	2 2	4700 11 40
	Canada	Manitoba	2012 8 8 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	102 59 7 32 4	000	100 100 22 22 22 22 22 22 22 22 22 22 22 22 2
	Ca	oirstnO		2119	4 4	100001040
		диерес	2 2 3 3 2 2 2 2 2 3 3 8 8 8 8 8 8 8 8 8	32 18 10 10		21 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1
		New Brunswick		66		20 27
		Nova Scotia	80 30 30 11 16 18 18 18 18	1122	07 11 11	9 2 1
		P.E. Island	211 7 2 2 1 8 2 2	9 2 2 2 2 3 4 4 6 9 6 7 1 1 1 1 1	w ∞ ru	480007817
Total			5454 1957 1957 101 101 1518 8 4238 2315 2315 7	2744 1628 7288 7228 97	, 63 18 45	5364 573 60 179 47 253 251
		Father	Edward Island Scotia runswick ba ba hewan Columbia		POSSESSIONS	
		Dirwnplace or	CANADA Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Province not specified	BRITISH ISLES England Freland Scotland Wales Other	BRITISH POSSESSIONS Newfoundland Other	EUROPE Austria Belgium Denmark Finland France Germany Holland

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			suoirsV	m H 4		60	15
p			United	7411741 707000000	- -	1205	27357
nue		Other			eo eo		4 4
nti		Asia	Japan		21 21		921
-Continued		4	China		8118	-	6 19
21-			Other	24114034115	- -	76-1	29
1931			Sweden	1 2 1 2		119	1112
TA,			RissuA	333 10 10 11 7		57	904 16 920
ALBERTA	-		sinsmuoA	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10	294
AL			Poland	1195 1195 1195 62 62 16	1 1 2	=	1434 30 1464
FOR			Norway	321 11		37	8 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9
		be	Italy	1		2	66 1
ZIZ		Europe	Hungary	6 1 1 62			176
ARENTS		F.	Holland	1-1111		6 -	72
PA			Germany	11 2 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1		27	265
OF			France	1 2 1		70	43 2 45 2
- 11	er		Finland	1 2 1	Titi	00	40
AC	Mother		Denmark	11-11111		7	132
BIRTHPLACE	of M		Belgium	12 2	TIII	9	49
IRT			AirtsuA	1 1 1 1 1 1 1 1 1 1	1111	4	434
	Birthplace	suois	Other			411	29 4
TO	irth	Ritirah -sessoq	Mewf'ndland		iiii	Tii	6 6
5	B	S	Other			-	2 2
DIA		Isles	Wales			114	8 97 9 1 7 98
OR			Scotland	<u> </u>	-,	L-	63
ACCORDING		British	Ireland	11 80 62		1.9	226 10 236
		m	England	16 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	2 2	170	35 1476
SIFI			Prov. not specified			01	102 8
CLASSIFIED			British Columbia	1 8214 8	10	83	174 13 187
			Alberta	30 175 110 167 230	9 4 1 1	670	4085 296 4381
THS			Saskatch- ewan	10004410H		82	0 2 2 2
BIR		Canada	Manitoba	1821		104	520 546
STILLBIRTHS		Can	Ontario	121 12 2 2 2	- -	229	80 385 1062 520 4
			G nepec	2121 12		52	9 9 4 1
OF			Brunswick			13	808
(EXCLUSIVE			Nova Scotia			19	
SUL			P.E. Island				2 1 9 1
XCI			LITTE	1844 1514 1514 1122 1182 187	68 35 10	2904 10 10	1 2 2 2 2 4
			Total	1 25.4		29	16617 47 133 635 2 3 17252 49 136
-BIRTHS							ied ied rs
			ner			United States Various Not specified	Children born to married mothers Children born to unmarried mothers Children born to all mothers
5			Father	y /	na an er		nun
LE			of				to Lo all
TABLE			Birthplace of	iry iy ania a		8	n 1
1			pla			ate	bors s
			irth	Hungary Italy Norway Poland Roumania Russia Sweden	na an	St	ther ther ther
			A	Hungary Italy Norway Poland Rouman Russia Sweden	IA China Japan Other	United States Various Not specified	Children born mothers Children born mothers Children born t
					ASIA Ch Ja Ot	Var	Chi

DARFNTS FOR ALRERTA 1931-Continued

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TABLE 6—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO AGES OF PARENTS
TAB
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AGE 1		Not stated	
Appendix		19 vo 20 0 d	
According to the property of t		4	
Appendix		4	
Age of the property of the pro			
APPROVED 1		10	
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AGE OF THE PROPERTY OF THE PRO			
Age of Table 1		- 21	
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Act of the control of			1 1 1 1 1 1 1 1 1 1
Age of Total 13 14 15 16 17 1 18 19 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
Age of the control of			
Age of Total 13 14 15 16 17 18 19 20 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
AGE OF MONTHER Total 13 14 15 16 17 18 16 16 17 18 16 16 17 18 16 16 17 18 16 16 17 18 16 16 17 18 16 16 17 18 16 16 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18			1 1 1 1 1 1 1 1 1 1
AGE OF ACIDITIES AND ACIDITIES			111111111111111111111111111111111111111
AGE OF MOTHER Age of Total 13 14 15 16 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
Age of Total 13 14 15 16 16 17 18 19 20 21 22 28 24 26 26 28 24 26 28 26			
### Father Total 13 14 15 16 17 18 19 20 21 22 23 24 25 6 27 28 29 80 81 28 29 81 28 29	R		
### Father Total 13 14 15 16 17 18 19 20 21 22 23 24 25 6 27 28 29 80 81 28 29 81 28 29	THE		$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
Age of Father Total 18 14 15 16 17 18 19 20 21 22 28 24 225 26 27 28 29 80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MO		
Age of Father Total 13 14 15 16 17 18 19 20 21 22 22 24 25 26 27 28 29 3	OF		11111123990394716117484090976814487148
Age of Father Total 18 14 15 16 17 18 19 20 21 22 28 24 22 28 21 2 28 21 2 28 24 22 28 21 2 28			111111
Age of Total 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 7 Years		- 29	
Age of Total 13 14 15 16 17 18 19 20 21 22 28 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26	,		
Age of Father Total 18 14 15 16 17 18 19 20 21 22 23 24 25 28 29 29 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20			
Age of Father Total 13 14 15 16 17 18 19 20 21 22 23 24 25 26 25 25 25 25 25 25 25 25 25 25 25 25 25			
Age of Total 13 14 15 16 17 18 19 20 21 22 23 2			
Age of Total 13 14 15 16 17 18 19 20 21 22 2			
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Age of Father Total 13 14 15 16 17 18 19 20 2 2 2 29 3 2 2 2 3 2 2 2 3 3 2 2 2 3 3 2 2 3 3 2 2 3 3 3 4 4 4 4		22	1 9 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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AGES	
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OF STILLBIRTHS)	
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SIVE	
(EXCLU	
TABLE 6-BIRTHS	
	400

Not stated		1 10	2 20	-	2 21
19VO 38 0 d			67		67
8			00		00
4	21-		12		15
164	4		23	i	23
454	0001 11		00	-	30
44	70 62 14 14		98		86
43	4-1-12	-	113	2	115
42	4 2 11	111	159	က	162
- 4	4		168		6 168
40	111 1 2		283	en	200
39	00 1 0		320	L-	327
00 00			413	4	417
3.7	4 1 8 6 7		300	4	389
36		-	457	es	7 460
 	1001		208	9	00 511
34		-	1 503	00	50
භ භ	-0 0 1		7 564		2 572
31 32	- 0 0 -		62		63
31	m		698	10	703
30	- -	1	744	10	759
8 29			744		752
28			086	17	1997
2.7			874	1.9	893
26		11-	1033	23	1056
25	1		1017	17	1034
24			1017	32	1049
23		11-	162	40	0.2
22		TTT	369 565 738 889 1027 10	49	56 168 439 630 809 962 1076 11
21 2			891	73	62 1
20		11-	00 60	71	6 6 0
6		TII	65 7	65	308
			9 21	02	9 6
∞ 1			986		3 43
17		-	32 130	80	168
16			3 22	24	56
10			H	0	10
1			ෙ	4	L-
13 14				H	-
Total 1	401111 2017-008 10 90	111	16,617	635	17,252
Age of Father	Vears Ve	65 and over Not stated	Children born to married mothers	to unmarried mothers	

1931
PARENTS,
OF
ORIGIN
RACIAL
TO
ACCORDING
CLASSIFIED
STILLBIRTHS)
OF
(EXCLUSIVE
7-BIRTHS
TABLE

	707770	21-21-1
	Not specified	844141114814141414141414141414141414141
	Ukranian	01 41 8
	Syrian	2
	esiwZ	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Swedish	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Serb and Croat	4 14 1 4 80
	Russian	00001000 000000 000000 000000 000000
	Roumanian	80 64 1 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1
	Polish	1 1 1 3 3 4 1 1 1 3 3 3 3 3 3 3
	Norwegian	74 4 7 4 7 4 7 4 7 7 7 7 7 7 7 7 7 7 7
	Negro	
	dsiwəl	
ER	Japanese	
MOTHER	nsilstI	1 1 1 1 1 2 1 1 2 3 4 1 2 3 4 4 5 6 7 7 8 9 1 1 1 2 2 3 4 4 5 6 6 7 8 8 9 1 1 1 1 1 1 1 1 1 1 2 2 3 4 4 4 4 5 6 6 7 8 8 8 8 8 8 8 8 8 8 <t< th=""></t<>
MO	nsibnl	4
OF	Hungarian Icelandic	204
Z	nbniH	
RIG	Greek	
RACIAL ORIGIN OF	German	0.00
ACI	Finnish	0000111
2	Dutch	1003 1003 1003 1003 1003 1003 1003 1003
	Danish	220 200 200 200 200 200 200 200 200 200
	Czech and	908 21 11 2 8 11 8 14 2 3
	Chinese	
	Bulgarian	
	Belgian	0004 11 01 1 100100 00 00 00
	nsirtsuA	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	French	8 6 4 8 0 0 0 1
	Welsh	4224 400 400 400 400 400 400 400 400 400
	Scotch	004400 004400 14080400 14080400 14080400 14080400 14080400 14080400 14080400
	hairI	0.449 0.0000 0.0
	English	1 1 2 2 2 2 2 3 2 3 2 3 3 3 3 3 3 3 3 3
	Total	84000000000000000000000000000000000000
RACIAL ORIGIN OF FATHER		English Irish Scotch Welsh French French French Fush Bulgarian Chinese Chinese Chinese Chinese Danish Chinesh Chinesh Hudan Hudan Icelandic Hudan Japanese Jewish Norwegian Roumanian Russian Russian Swedish Swedish Swedish Swedish Not specified

TABLE 7-BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED ACCORDING TO RACIAL ORIGIN OF PARENTS, 1931-Continued

1 .	Not specified	m 10 to		200
	Отред	2220	7 7 7	20 2 20 2
	Ukrainian	300	2882	60
	Syrian	33 8 8 8 8 8		3 3 3
	seiwa	50 20 30		201
		1881 70	9 9 9	070
	Croat Swedish	00000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	90 1 2 8 6 1 7 8 6 1 7 8 6
	Serb and	0.44		044
	Russian	364 183 181	F 00 4	186 185 185
	Roumanian	130 69 61	60 - 67	133 70 63
	Polish	735 369 366	22 22 22 22	0000
	Norwegian	500	20 10 10	62 33
	Negro	11 5 6 2 5 2		07 - 70
	Jewish	10 00 01		12 co cu
23	Japanese	22 14 8 3 3 3		24 8 20 20 20
HE	Italian	∞ 4 € 70 ∞ F	400	8000
OF MOTHER	Insibal	597 311 286	100 58 42	697 369 328
F	Icelandic	30	11.1	30 17 13
0	Hungarian	193 99 94	F 80 4	200 102 98
IGI	ubniH			
OR	Greek	4 10 9 3 5 7	21-70	6 10
AL	German	2294 1199 1095	10000	123
ACIAL ORIGIN	T inni A	8 4 8 3 5 5		8 0 0 00 01 0 01
R	Dutch	233 119 114	10	243 123 120
	Danish	244 131 113	400	248 133 115
	Slovak	73	∞ ro ∞	1387
	Chinese	29 15 14		29 1 15 14
	Bulgarian		Tii	
	Belgian	64		32807
	Austrian	222	1-604	281
	French	966 2 470 1 496 1	250 220 220	2000
			7.6464	1001496
	Welsh	172 95	en en	175 98 77
	Зсотср	341 1929 699 1006 642 923	333	045 956
	AsiaI	341 699 642	44 23 21	385 2001 722 1045 663 956
	Fuglish	2 1 6	831 66 65	400
		362 191 171		197
	Total	Children born to married mothers Total 16617 3628 1341 1929 8690 1911 699 1006 Female 8017 1712 642 923	2388	17252 3754 1385 2001 1 8938 1977 722 1045 8314 1777 663 956
		Total Male Female	hers Total Male	Children born to all mothersTotal
	E E	lota Lale em:	ers Jota fale	ota fale em:
	THI	S.	othe	LAH
	FA	the	E	ers.
	OF	mo	rrie	oth
	Z	ried	ıma	11 m
	RIG	mar	un o	a o
	0	to to	n to	n t
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	RACIAL ORIGIN OF FATHER	ne.	ue.	.eu
		hildı	Children born to unmarried mothers Tot Mal	ıildı
		Ö	5	C

TABLE 8-TOTAL BIRTHS (EXCLUSIVE OF STILLBIRTHS) AND BIRTHS IN PUBLIC INSTITUTIONS SHOWING THE NUM-BER OF MOTHERS NON-RESIDENT IN THE PROVINCE OF ALBERTA, 1931

	All	All Births	In Public	In Public Institutions
	Total	Births to Mothers Non-resident in Province	Total	Births to Mothers Non-resident in Province
Total for Province	17,252	167	8,240	129

TABLE 9-BIRTHS (EXCLUSIVE OF STILLBIRTHS) TO RESIDENT AND NON-RESIDENT MOTHERS AND BIRTHS IN PUBLIC INSTITUTIONS IN CITIES OF 5,000 POPULATION AND OVER, ALBERTA, 1931

elsewhere than in Public Institutions	To mothers non- resident in city where birth occurred and	ent in dent in ince	11 114 114 11 3
where than Institutions	- To	Resident in Province	
s elsewh In	juəļ	To Resid	281 281 95 495
Births		IstoT	394 321 110 73
tions	resident in city where birth occurred and	Non-resi- dent in Province	23 42 4 30
Births in Public Institutions	To mot residen wher	Resident in Province	278 649 182
ths in P	quəp	To Resistant	1190 1388 216 116
Bin		IstoT	1491 2079 462 328
	To mothers non- resident in city where birth occurred and	Non-resi- dent in Province	67 44 60 60 70 70 60
Births	To moth resident where occurr	Resident in Province	203 2086 2086
All		ise R oT	1565 1669 311 165
		IstoT	1185 2400 572 401
	Cities		Calgary Edmonton Lethbridge Medicine Hat

TABLE 10-ORDER OF BIRTH OF LEGITIMATE CHILDREN BORN IN 1931 (INCLUDING STILLBORN CHILDREN), BY AGE OF MOTHER

	Age not stated	444 470 444
	45 years and over	8 9 9 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	40-44 years	00 00 00 00 00 00 00 00 00 00 00 00 00
	35-39 year∎	00040000000000000000000000000000000000
	8189v 48-08	8 92847774881 1004707488 110107488 110107488 110107488 110107488
ę,	25-29 years	4 11 100 10 10 10 10 10 10 10 10 10 10 10
Mother	20-24 years	401 8170 4000 8010 8010 8010 8010 8010 8010 801
ge of	15-19 years	226.55 220.55 20.6
A	19 years	1 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	18 years	8 8 2 2 5 4 8 4 8 6 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	17 years	10.00 11.00
	16 years	2,11,11,11,11,11,11,11,11,11,11,11,11,11
	15 years	
	Under 15 yrs.	∞ ∞
	Total	11 0.4488311 0.440802011 0.000000000000000000000000000000000
	Order of birth of Children	Total 1 st child 2 nd 2 nd 3 rd 4 th 5 th 6 th 6 th 7 th 1

TABLE 11.—INFANTILE DEATH RATES, ETC., BY DIVISIONS AND CITIES, 1931

sų	1 year of age to	children under age to each births	Births	with or	without attendance	Rate of children 1000	stillborn to each births
Divisions and Offices Rate per Rate per 1000 birt	1000 firths "Mumber 10 death"	adraid fatoT	Mith nsicievaq	Without maisiavAq	Not stated	to redmuN saltridllits	Hate per 1000 births
Division No. 1—Medicine Hat (City of Medicine Hat excepted)	5.9 24	316	191	125		82 4	9.5
No. 3—Bow		31	240	[~		20	16.1
No. 4—Nanton	or	4 60	392	122		ლ ∝ —	31.4
No. 6—Calgary (City of Calgary and City of Drumheller ex-			0 6	- 0		7	1 0
Division No. 7 Double Design			730	109		1 C	30.9
No. 8—Red Deer (Cities of Red Deer and Wetaskiwin excepted)			849	212		04	37.7
No. 9-Rocky Mountain			2010	00 0		00 h	19.9
Division No. 10Victoria 69.7	5 1 79	1478	0 10 10 10 10 10	422		000	2.83.7
No. 12—Edunoucon (City of Edunoucon excepted)			156	136	1	9	20.2
No. 13—Beaver River			323	548		18	20.7
No. 14-Sturgeon			513	602		26	23.3
No. 15—Clearwater			208	211	1	7,	000° €00°
Division No. 16—Peace River			437	305		14	50 C C C
Edmonton			2375	200		89	0000
of Calgary			1857	288	1	89	36.1
of Lethbridge			547	25		18	31.5
of Medicine Hat			386	15	1	9	15.0
of Red Deer			100		1	ಹ	49.5
Wetaskiwin			112	2		က	26.3
	_		276			20	18.1
	98		7411	4092		280	24.3
			TC3	96		173	30.1
	119		13064	4188	1	453	26.3

TABLE 12.—DEATHS OF CHILDREN (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE BY SEX AND CALENDAR MONTH OF DEATH, 1931

)			. 4114101111141141111144 141101440
		December	
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		Точетрег	#
			E E 1 1 1 1 1 1 1 1 2 2
		October	M 8
Ì		September	. 4
			X 4
	TH	4su2uA	# # 20 10 10 10 10 10 10 10
	DEATH		(A) (B)
	OF	Ylul	3 3 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
	TH	əunr	H E
	MONTH		
-		May	A 2 1 4 1 2 1
		7.00	· 10 HH4 HMH WO HHW 4 HW M
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TABLE 13.—DEATHS OF CHILDREN (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE,

BY SEX AND AGE AT DEATH, 1931

Total under	CAUSES OF DEATH Your Male Male Female Female Gunder I day	M.	116	23 11 1	***	is and polioencephalitis (acute)	Epidemic cerebrospinal meningitis	0 m	v L 90	meninglus 13 8 8 1 13 8 8 1 15	1 1 1 1 1 1 1 1 1 1	Adenoid vegetations) Adenoid vegetations) Diseases of the stomach Diarrhoea and entertifish Hernia intestinal obstruction
	I day and under I weeks	F. M. F. M. F.	09 96 83 46 45		1 1 1 3		1 - 1 - 1 - 1 - 1		1 1 1 1 1 1 1 1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	2 weeks and under 3 weeks 3 weeks and under 1 month and under 2 most.	M. F. M. F. M. I	47 34 26 21 63 5	1 1 1 1	2 4 5 1 4	1 1 1 1 1				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 4 1 8 9 9 1	5 2 2 4 10
AGE AT DE	Some 8 months and under 8 mosths and under 4 most.	F. M.F. M.F. M.	2 56 34 49 30 38	1 2 2 1 4 2	6 2 5 3	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			3 1 1 1 1 1 1 1 1 1	3 12 4 4 2 13 1 4 4 5 2 1	6 12 5 18 7 14
ATH	som 6 months and under 6 mos.	F. M. F. M	23 20 16 25	2 1 1 -	2 1		2	1				80
	6 months and under 7 mos. 7 months and under 8 mos.	I. F M. F. M	5 18 20 22 16		1 4 1 4	_	2 2	2 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 4 2 2 4 2 2	1 2 1 2 2 3
	8 months and under 9 months and under 10 mos. 10 months and under 11 months and under 11 mos.	F. M. F. M.	10 12 11 12		1 1 2		1 2 1				1 1 1 2 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 1 2	9 9

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(a) Congenital hydrocephalus (b) Congenital malformations of the heart (b, d, e) Others under this title (b, d, e) Others under this title (c) Congenital debility (c) Premature birth (c) Injury at birth (c) Chler diseases peculiar to early infancy (d) Unspecified diseases (f) Unspecified causes under 3 months (f) Unspecified causes (g) Other external causes (h) Other external causes (c) Unspecified or ill-defined causes
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14.—TOTAL DEATHS (E)	
TABLE	

Public	on-resident in city where death occurred and	Mon-resident in Province	Total Male Female	
han in	Non-resident city where death occurred and	Resident in Province	Total Male Female	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Déaths elsewhere than in Institutions		Residents	Total Male Female	2 17 15 6 18 8 6 8 6 8 6 8
hs else			Male Female	7 17 9 9 2 5 2 2 1
Dèat		Total	Total	22 24 4 4 7 7 1
suc	lent in	Non-resident in Province	Male Female	
Deaths in Public Institutions	Non-resident i	Resident in Province	Male Female Total	20 17 6 4 6 4 6 4 6 4 6 6 4 6 6 4 6 6 4 6
blic In	Z		Female Total	15 12 36 37 12 10 1 10
in Pu		Residents	Total Total	18 36 21 53 81 45 16 25 13 5 6 5
Deaths		Total	Male Female	30 65 19 11
		E	Female Total	1188
rear	Non-resident in city where death	Non-resident in Province	Total	
one	Ion-reside	Resident in Province	Total Male Female	14 9 5 39 21 18 10 6 4 11 6 5
All Deaths under one year	4	Residents	Male Female	0402
Deaths		Resi	Femsle IstoT	35 68 38 62 107 63 24 39 19 7 12 10
All		Total	Male	2 2 1 1 6 1
		<u></u>	Total	146 496 23
	Cities			Calgary Edmonton Lethbridge Medicine Hat

TABLE 15.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN PUBLIC INSTITUTIONS OF CHILDREN UNDER 1 YEAR OF AGE, SHOWING THE NUMBER NON-RESIDENT IN THE PROVINCE OF ALBERTA, 1931.

		Al	All Deaths under one year	nder one	year			In	In Public Institutions	nstitutions		
		Total		Non-res	dent in	Non-resident in Province		Total		Non-res	Non-resident in Province	Province
	Total	Male	Male Female	Total	Male	Total Male Female Total	Total	Male	Female	Total	Male	Male Female
Total for Province	1197	675	522	4	67	7	454	252	202	22	67	

Violent Deaths (Suicides excepted) 50

TABLE 16-POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), 1931—TRANSFERRED TO REGULAR RESIDENCE OF DECEASED

DIVISION No. 1-MEDICINE HAT

		1	
Puerperal State		3	6
Mephritis (acute and chronic)		7	44
sitisibnəqqA		3	1.9
Distriboes and Enteritis (over 2 years of age)			-1
Distriboes and Enteritis (under 2 years of age)	1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	w	3
(amrof lls) sinomuenA		11	69
Diseases of Arteries		13	82
Heart Diseases (all forms)	1 1 1 1 2 1 2 1 1 1 1 2 2 2 2	16	101
Apoplexy, Cerebral Haemorrhage & Thrombosis		10	31
simasnA suoisinta q			-
Diabetes		-	9
Cancer (all forms)		10	63
Tuberculosis (other forms)		T	
Pulmonary tuberculosis		T	
Reningococcic Meningitis		-	9
Acute poliomyelitis		T	Ī
szuənlinl		4	25
Diphtheria			1
Whooping cough		7	13
Scarlet fever		T	-
Measles			1
biodqytsraq bas biodqyT		-	9
Stillbirths		4	==
Infant Mortality Rate (per 1,000 births)	2001 2000 443 1053 1053 1053	61.7	
Number of Deaths (Under 1 year)		31	
Death Rate per 1,000 population		8.5	
Number of Deaths		135	tion
Birth Rate per 1,000 population		31.5	population
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Population, 1931	08 01 01 01 01 01 01 01 01 01 01 01 01 01	15909	per 10(
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Violent Deaths (Suicides excepted)

TABLE 16-POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), 1931—TRANSFERRED TO REGULAR RESIDENCE OF DECEASED—Continued

DIVISION No. 2 MACLEOD

Puerperal State		3	11	
Mephritis (acute and chronic)		ro.	18	
sitisibn9qqA	HH01 H0 00 H00	16	58	
Diarrhoea and Enteritis (over 2 years of age)		2	7	
Diarrhoes and Enteritis (under 2 years of age)		80	29	
(amrol lis) sinomusnq	1 100 4 10 11 4	17	62	
Diseases of Arteries	- - -	7	25	
Heart Diseases (all forms)		28	101	
Apoplexy, Cerebral Haemorrhage & Thrombosis		6	32	
simsanA zuoisinus	2	4	14	
Diabetes		1	4	
Cancer (all forms)		10	36	
Tuberculosis (other forms)		1	4	
Pulmonary tuberculosis	1	œ	29	RIVER
Reningococcic Meningitis				
Acute poliomyelitis				-Bow
Influenza		œ	29	6. 3-
Diphtheria		-	4	Z
Whooping cough		D.	18	DIVISION
Scarlet fever	H	1	4	IVIS
Measles		T	T	A
Diodqytsraq bas biodqyT		2	2	
Stillbirths	1 01410 4 04	20		
Infant Mertality Rate (per 1,000 births)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	52.9		
Number of Deaths (Under 1 year)	0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	50		
Death Rate per 1,000 population	100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9.3		
Number of Deaths	1 01-0 01-0 40 00004401000000000	256	tion	
Birth Rate per 1,000 population	04000000044 000 H	34.3	population	
Number of Births	118888488818888188888188888	946	100,000	
Population, 1931	1820 1820 1820 1820 1820 1820 1820 1820	27585	per	
.oU villaqicinnM	7 8 6 7 8 8 7 9 8 7 9 8 7 9 8 9 9 9 9 9 9 9 9	Total	Death Rate	
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DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), 1931-TRANSFERRED TO REGULAR RESIDENCE OF DECEASED-Continued TABLE 16-POPULATION, BIRTHS,

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DIVISION

Violent Deaths (Suicides excepted) 10 43 N Puerperal State Mephritis (acute and chronic) 21 3 13 Appenditicis Diarrhoea and Enteritis (over 2 years of age) 4 Diarrhoea and Enteritis (under 2 years of age) 13 56 Pneumonia (all forms) 56 13 Diseases of the Arteries 56 13 Heart Diseases (all forms) Apoplexy, Cerebral Haemorrhage & Thrombosis 13 3 4 Pernicious Anaemia Diabetes 65 5 Cancer (all forms) 3 13 Tuberculosis (all forms) 6 2 Pulmonary tuberculosis Meningococcic Meningitis Acute poliomyelitis 34 Ezuenlinl Diphtheria Whooping cough Scarlet fever Measles Diodqytsusq bas biodqyT 12 Stillbirths Infant Mortality Rate (per 1,000 births) 70.3 Number of Deaths (Under 1 year) 32 0000000 0 400000000000000 6.3 Death Rate per 1,000 population 145 Number of Deaths per 100,000 population. 19.7 Birth Rate per 1,000 population 455 Number of Births 23065 Population, 1931 Rate Total. Death Municipality No.

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TABLE 16—POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (I CITIES), 1931—TRANSFERRED TO REGULAR RESIDENCE OF DECEASED—Continued DIVISION No. 7—BATTLE RIVER—Continued
TABI

Violent Deaths (Suicides excepted) 21 69 9 20 Puerperal State 12 39 Nephritis (acute and 13 43 aitioib no qa A Distributes and Enteritis (over 2 years of age) 9 10 Diarrhoea and Enteritis (under 2 years of age) 36 Pneumonia (all forms) 20 Diseases of Arteries -101 30 Heart Diseases (all forms) Apoplexy, Cerebral Haemorrhage & Thrombosis 9 20 Pernicious Anaemia 16 Diabetes 108 Cancer (all forms) N Tuberculosis (other forms) 23 Pulmonary tuberculosis Meningococcic Meningitis 00 Acute poliomyelitis 00 26 sznəulini Diphtheria Whooping cough 10 Scarlet fever Measles Typhoid and paratyphoid 21 Stillbirths 105 45 67 70 Infant Mortality Rate (port 1900) 48.1 4182 Number of Deaths (Under 1 year) 100 8.4 Death Rate per 1,000 population 10 10 33 258 per 100,000 population. Number of Deaths 25.8 30000 noitsluqod Birth Rate per 1,000 790 Number of Births 30556 Population, 1931 Rate Total. Death Municipality No. 123 124 125 155

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TABLE 16-POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), 1931-TRANSFERRED TO REGULAR RESIDENCE OF DECEASED-Continued

Violent Deaths (Suicides excepted) 10 10 Puerperal State 12 Nephritis (binordo 24 (acute and 2 Appendicitis Diarrhoea and Enteritis (over 2 jears of age) 2 Diarrhoea and Enteritis (under 2 years of age) 13 26 10100 ED 1101 25 Pneumonia (all forms) Diseases of Arteries 39 94 Heart Diseases (all forms) 16 Apoplexy, Cerebral Haemorrhage & Thrombosis 00 Pernicious Anaemia Disbetes 40 80 Cancer (all forms) 9 Tuberculosis (other forms) DIVISION No. 10-VICTORIA-Continued 26 DIVISION No. 11—EDMONTON Pulmonary tuberculosis Meningococcic Meningitis Acute poliomyelitis 30 rzuənliul 9 Diphtheria D Whooping cough 2 Scarlet fever 3 9 Typhoid and paratyphoid 21 82 24 83 25 88 83 41 Stillbirths 62.8 Infant Mortality Rate (per 1,000 births) 34 61 27 27 47 81 81 83 83 106 98 200000000 Number of Deaths (Under 1 year) 1269577 Death Rate per 1,000 population 370 4200004 4000004 per 100,000 population. Number of Deaths 31.1 Birth Rate per 1,000 population 1560 Number of Births 3464 50113 Population, 1931 Death Rate Total. Municipality No.

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S-POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS). BY MUNICIPALITIES	CITIES), 1931—TRANSFERRED TO REGULAR RESIDENCE OF DECEASED—Continued	DIVISION No. 13—BEAVER RIVER—Continued
TABLE		

Valent Deaths (Suicides excepted)		12	70	-445
Puerperal State		9	27	10 11
Mephritis (acute and coinced		7	22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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Diarrhoea and Enteritis (over 2 years of age)			2	
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Pneumonis (all forms)		17	28	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Diseases of Arteries		CJ CJ	23	
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Apoplexy, Cerebral Haemorrhage & Thrombosis			<u>r</u> o	-
Pernicious Anaemia			T	
Diabetes		N	6	- -
Cancer (all forms)		16	73	1-1001 -01 -
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Pulmonary tuberculosis		11	20 Z	HHH 4 H 60 H
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Acute poliomyelitis			-STU	
Influenza		0	14	24
Diphtheria			No.	
Whooping cough		-	ON	
Scarlet fever			DIVISION	
Measles		-	DI	
biodqytsraq bns biodqyT) yes)	2	
Stillbirths		13		40 700 80 000
(per 1,000 births)		8.6		21044084 24077 000 8188086 24777 000
(Under 1 year) Infant Mortality Rate	1 62 1 1 1 1	60 79		1
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Death Rate per 1,000	1 ∞ 1 1 1	00		
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16—POPULATION,
TABLE

15-CLEARWATER-Continued

No.

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See continuation of table on next page for cities.

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Violent Deaths (Suicides excepted) 67

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MUNICIPALITIES (EXCLUDING TABLE 16-POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY TO REGULAR RESIDENCE OF DECEASED-Continued CITIES), 1931-TRANSFERRED

Puerperal State 24 30 ₩ 23 T 29 1 47 (binordo Nephritis (acute and 22 10 1 Appenditicis Diarrhoea and Enteritis (over 2 years of age) 03 00 147 Diarrhoea and Enteritis (under 2 years of age) 16 801 100 29 29 41 1 co 22 580 62 70 11 27 Pneumonia (all forms) 329 41 50 20 22 13 171 Diseases of Arteries 235 167 17 128 62 85 13 Heart Diseases (all forms) Apoplexy, Cerebral Haemorrhage & Thrombosis 15 12 15 39 40 4 10 Pernicious Anaemia 8 4 10 333 223 77 Diabetes 54 3 141 62 33 67 15 171 Cancer (all forms) 40 80 Tuberculosis (other forms) 20 22 26 26 T 29 10 1 2 Pulmonary tuberculosis 07 00 1 Meningococcic Meningitis Acute poliomyelitis 00 10 1 3 141 Influenza 43 Diphtheria Whooping cough Scarlet fever 192 Measles 33 7 Typhoid and paratyphoid 99 12 8 Stillbirths Infantile Mortality Rate (per 1,000 births) 49 122.3 62.5 63.5 75.7 200 79. 105 69 13 No. of Deaths (under 1 year of age) 6.7 12.4 17.8 7.3 00 9.0 Rate per 1,000 population , 119 533 18.9 609 population.. 38 15.9 93 population.. 26.8 29 population.. 38.5 34 population.. 24.2 119 population. 21.2 538 population Number of deaths 31.1 Rate per 1,000 population 100,000 83761 1586 per 100,000 Rate per 100,000 10300 164 per 100,000 per 100,000 Rate per 100,000 | 13489 | 327 | per 100,000 Number of Births per per per Population, 1931 Rate Hat ... Death Rate Edmonton Drumheller Death Wetaskiwin Death Deer Death Lethbridge Death Cities Medicine Calgary Red

TABLE 17.—CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1931

				47
	Not stated			
	Over 100 yrs.	w w		
	95-99 years	► W 4		
	90-94 years	34 20 14	- -	
	85-89 years	105 52 53	9014	
	80-84 years	217 119 98	10	
	75-79 years	297 176 121	வேலம	
	70-74 Years	395 246 149	19	
	65-69 years	340 215 125	24 16 8	
٠	60-64 years	315 197 118	31 19 12	21
	55-59 years	278 181 197	15	1
	50-54 years	303 189 114	338	1
Ω	45-49 years	256 164 92	35	сст 4 к 1 1 1 2 2 2
AGES	40-44 years	220 135 85	233	
4	35-39 years	201 104 97	39 20 19	H0
	30-34 years	156 87 69	39 21 18	1 2 1 1 1 1 1 2 2 1 1 2 1 2 1 2 1 2 1 2
	25-29 years	136 74 62	41 16 25	
	20-24 years	156 87 69	48 24 24	
	15-19 years	158 94 64	53 24 29	0
	10-14 years	05 57 48	135	3 3 3 1 1 1 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	5-9 years	47 1 79 68	288	
	4 years	32 1	r 4 w	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	3 years	222	400	
	2 years	26	13	
	д уеаг	40 76 64	47 25 22	
	Under 1 yr.	197 1 675 522	133 83 50	
	Total	5302 3095 2207	751 428 323	11 1 1 1 1 1 1 1 1 1
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CAUSES OF DEATH			P.	tis
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		-ALI	IN	Paratyphoid fever Smallpox Measles Scarlet fever Whooping—cough Diphtheria Influenza (a) Sole cause (b) With bronchi (c) With pneumon (d) With other re (e) With intestina (f) With other c
		IS.	I.	
		DEATHS—ALL CAUSES	CLASS I.—INFECTIOUS AND PARASITIC DISEASES	11 10 0 8 4 9 8 11
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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1931—Continued

		VITAL STATISTICS BRANCH	
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	Over 100 yrs.		ľ
	95-99 years		İ
	90-94 years		1
	85-89 years		ī
	80-84 years		1
	75-79 years		-
	70-74 years		ŀ
	65-69 years		Ī
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	50-54 years		1
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AGES	40-44 years		
	35-39 years		1
	30-34 years	110111111111111111111111111111111111111]
	25-29 years	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
	20-24 years		1
	15-19 years		
	10-14 years		Ī
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	Under 1 yr.	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Total	25 1 1 2 2 2 2 2 2 2 2	3
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CAUSES OF DEATH		oences encep l men spirat tening testine testine skin mphateal an	
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		and polioencephalitis (acute)ebrospinal meningitis of the respiratory system of the meninges and central nertem of the intestines and peritoneum of the joints (vertebral column of the lymphatic system (mesen- roperitoneal and bronchial glands) of the genito-urinary system	
	SES	s and polioencephalitis (acute) Sand polioencephalitis (acute) Fema Male Fema Male Sof the respiratory system. Total Male Fema System Of the intestines and central ner Fema Male Of the joints (vertebral column Male) of the skin and sub-cutaneous Male femal of the lymphatic system (mesen- etroperitoneal and bronchial glands Male Femal Male Femal Male Femal Male Femal Male Femal Male Femal Male Femal Male Femal of the genito-urinary system.	
	AU	las relitis and polioencephalitis (acute) ic or lethargic encephalitis ic cerebrospinal meningitis relitis and polioencephalitis receptorspinal meningitis receptorspinal meningis receptorspinal meningis receptorspinal meninges and central nerulosis of the meninges and peritoneum reliosis of the intestines and peritoneum losis of the joints (vertebral columnepted) recepted) receptorspinal and sub-cutaneous ular tissue receptorspinal and bronchial glands recepted) receptorspinal and bronchial glands recepted) receptorspinal and bronchial glands posis of the genito-urinary system	
		Erysipelas Poliomyelitis and polioencephalitis (acute) Epidemic or lethargic encephalitis Epidemic cerebrospinal meningitis Rabies Tetanus Tuberculosis of the respiratory system Tuberculosis of the intestines and peritoneum Tuberculosis of the intestines and peritoneum Tuberculosis of the intestines and peritoneum Tuberculosis of the joints (vertebral column excepted) Tuberculosis of the skin and sub-cutaneous cellular tissue Tuberculosis of the lymphatic system (mesenteric, retroperitoneal and bronchial glands excepted) Tuberculosis of the genito-urinary system	
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Disseminated Tuberculosis, acute	ver and other malignant tumoursTo er and other malignant tumoursTo the buccal cavity and pharynx Of the stomach and duodenum Of the rectum Of the liver and biliary ducts Of the pancreas Of the peritoneum Of the larynx Of the larynx Of the lung
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	Cancer and other malignant tumoursTotal Cancer of the buccal cavity and pharynx (a) Of the stomach and duodenum
(a) (b) (b) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	Can Can (a) (b) (c) (d) (d) (d) (d) (e) (e) (e) (e) (e) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f
60 60 60 60 60 44 44	45–53 Cancer and other malignant tumours. 45 Cancer of the buccal cavity and phary 46 (a) Of the oesophagus
	4 4

Not stated Over 100 yrs.

VITAL STATISTICS BRANCH

years 66-96 Years ₱6~06 years 68-98 years ₹8-08 years 64-94 01 70-74 years years 69-99 years ₹9-09 00 years 69-99 years ₱9-09 00 67-97 AGES years ₱₱-0₱ 2 years 68-98 Years ¥8-08 years 67-97 Years ₽2-02 15-19 years years 71-01 5-9 years 4 years 3 years 2 years l year Under 1 yr. 43 Total Male Female Male Female Male Male
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Female Male Female Male Female Female Female Female Male Male Male Male Male Of other organs of the respiratory system. Of the circulatory system (glands excepted) organs. Cancer of other female genital organs. other male genito-urinary the female urinary organs CAUSES OF DEATH the lymphatic system Of the bones and joints Of the prostate gland the eye and orbit Of the mediastinum Of the cervix uteri Cancer of the breast the bladder Of the uterus Of the kidney Of the testicle Cancer of the skin Of the brain Of JO. JO. JO JO (p) (c) (p) (a) (a) (q) (c) (p) (e) (p) (e) (f) (a) (c) (p) 48 67 50 52 51 53

AND AGE, FOR THE WHOLE PROVINCE, 1931-Continued SEX BY TABLE 17.—CAUSES OF DEATH

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spine and spinal cord neck pelvic viscera specified organs cancer ecified or unknown loc nt tumours ovary uterus t female genital organ brain brain	ES, THI	land
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spine pelvi spec can can to the trenu trenu teru teru	site of th ANTIC AND DO atic	litus he pi
(b) Of the spine and spinal cord (i) Of the neck (ii) Of the pelvic viscera (iii) Of other specified organs (iv) Of unspecified or unknown location (iv) Of unspecified or unknown location (iv) Of unspecified or unknown location (iv) Of the ovary (iv) Of the uterus (iv) Of the brain (iv) Of the thyroid gland	(f) Of the prostate gland	Diabetes mellitus Scurvy Rickets Diseases of the pituitary gland
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(g) (h) (i) (g) (g) (g) (h) (h) (h) (h) (h) (h) (h) (h) (h) (h	(f) Of the prostate gland	Diabete Scurvy Rickets Disease
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VITAL STATISTICS BRANCH

52			VITAL STATISTICS BRANCH	
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		Over 100 yrs.		THILLI
		95-99 years		
		90-94 years		
		85-89 years		
		80-84 years		-
Continued		75-79 years		7 1 7
		70-74 years		
		65-69 years	111111111111111111111111111111111111111	
		60-64 years	0.00	
		55-59 years	0 1 1 1 1 1 1 1 1 1 1 2 2	
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VIN		30-34 years		2 1 1 3
PROVINCE,		25-29 years	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
- 11		20-24 years	11	2
WHOLE		15-19 years	1-111-111111111111111111111111111111111	
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DEATH				
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			ases of the thyroid and parathyroid Simple goitre Exophthalmic goitre Myxoedema, cretinism Tetany Others under this title ases of the thymus gland ases of the adrenals (Addison's disease) Fatty or amyloid degeneration Steatosis of heart, etc. Others under this title Others under this title Steatosis of heart, etc.	
-CAUSES			Simple goitre Tota Exophthalmic goitre Tota Myxoedema, cretinism Tota Tetany Others under this title Tota ases of the adrenals (Addison's disease). Fatty or amyloid degeneration Tota Steatosis of heart, etc. Others under this title Tota Steatosis of heart, etc. Others under this title Tota Steatosis of heart, etc. Others under this title Tota Others under this title Tota Steatosis of heart, etc. Tota	ra, haemorrhagica
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17.			be thyroid and parathyr goitre almic goitre	haemorrhagica anaemia
LE		I	roid and parath goitre this title ymus gland renals (Addiso uses oid degeneratio art, etc his title his title	rha
TABLE		CAUSES OF DEATH	m m itle glk s (A second s)	mon
Ì		DE	Simple goitre	hae
		OF	r thy hea	us us ias
		ES	sees of the thy glands	Simple purpura, Haemophilia (a) Pernicious Other anaemias
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		CA	sses of glands Simple Exophth Myxoed Tetany Others ases of ases of T gener T gener Cothers Others	inde in ple emo
			ases of glands Simple Exophtl Myxoed Tetany Others ases of ases of ases of Statty of Steatos. Others	Simple purpura, Haemophilia (a) Pernicious 3 Other anaemias
			Diseases of the thyroid and parathyroid glands (a) Simple goitre (b) Exophthalmic goitre (c) Myxocdema, cretinism (d) Tetany (e) Others under this title Diseases of the adrenals (Addison's disease) Other general diseases (a) Fatty or amyloid degeneration (b) Steatosis of heart, etc. (c) Others under this title (d) THE BLOOD AND BLOOD	(a) Simple purpura, haemorrhagica (b) Haemophilia
			66 Diseases of the thyroid a glands	0.5
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TABLE 17.-CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1931-Continued

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nic endocarditis, valvular diseases Sub-total Endocarditis specified as chronic and other valvular diseases of the heart	Endocarditis, ur	ses	Acute myocarditis	Myc	Chronic generati	Myocarditis	ases of pectoris	Diseases of the coronary arteries	Embolism arteries	Angina pectoris	r dis	Functional diseases of the	Othe	rysr	riosc	rene	c dis	ases of tl	ases gritis	athi
Chronic endocarditis, valvular diseases Sub-total Female (a) Endocarditis specified as chronic and other Male	(a)	Diseases of		(p)	(c)	(p)	Diseases pecto	(a)	(b)	(c)	Other diseases of the heart	(a)]	(b) Others not specified	Aneurysm (other than of the heart)	Arteriosclerosis (of coronary arteries excepted)	Gangrene	Other diseases of the arteries	Diseases of the veins (varices, phlebitis, etc.)	Diseases of the lymphatic system	Idiopathic abnormalities of blood pressure
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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1931—Continued

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	75-79 years	1 21	111					1 2	1-	0110		9 1		1-	-		11	
	70-74 years	36	15					11	7-	00 01		4.00	107		Tr	eo	T	-
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		ases		e th		Other diseases of the larynx	Bronchitis, acute	Bronchitis, chronic	Bronchitis, unspecified	hop	ary	nmo	ı, ne		an		em	r diseases of the culosis excepted)
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		Other diseases of the circulatory system	SYSTEM	Diseases of the nasal fossae and annexa	(a) Croup	(b) O		(b) B:		(a) Bronchopneumonia	(b) Capillary bronchitis	Lobar pneumonia	Pneumonia, not specified	Pleurisy	Congestion and haemorrhagic infarct of the lung	Asthma	Pulmonary emphysema	Other diseases of the respiratory system (tuber-culosis excepted)
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OF	Diseases of the buccal cavity and annexa Diseases of the tonsils	he c the	r diseases of the stomachrhoea and enteritis (under 2 years of age) Diarrhoea and enteritis (2 years and over)	Ulceration of the intestines (2 years and over) andicitis	l ob	Cirrhosis of the liver (not specified as alcoholic)	i he p
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-DIS	(a) Diseases of the buccal cavity and annexa (b) Diseases of the tonsils	Diseases of the oesophagus	Other diseases of the stomach	(b) Ulceration of the intestines (2 years and over) Appendicitis (a) Hernia	(b) Intestinal obstruction	(b) Cirrhosis of the liver (not specified as alcoholic)	Biliary calculi Other diseases of the gall-bladder and biliary passages Diseases of the pancreas Peritonitis, cause not specified
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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1931—Continued

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	80-84 years	004 044 1 4
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	65-69 years	800 11 2 1 2 1 1 2 1 1
	60-64 years	2711 1 200 4 to 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	55-59 years	040 0 0000
	50-54 years	11. 1 1. 1 1. 1 1. 1. 1. 1. 1. 1. 1. 1.
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	10-14 years	
	5-9 years	40
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		re nephritis (including unspecified, under 10 years of age) britis not specified (10 years and over) re diseases of the kidneys and annexa sases of the urethra Other diseases of the urethra Other diseases of the urethra Diseases of the ovary, Fallopian tube and parametrium Diseases of the prestate Diseases of the prestate Diseases of the deast Diseases of the the uterus Diseases of the breast Diseases of the breast Diseases of the seart Diseases of the seart Diseases of the breast Diseases of the breast Diseases of the breast Other diseases of the female genital organs ISEASES OF PREGNANCY, CHILDBIRTH tion with septic conditions
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		CLASS X.—DISEASE OF THE GENITO-URINARY SYSTEM 130 Acute nephritis (including unspecified, under 10 years of age) 131 Chronic nephritis 132 Nephritis not specified (10 years and over) 133 Other diseases of the kidneys and annexa 134 Calculi of the urinary passages. 135 Diseases of the bladder (tumours excepted) 136 (a) Stricture of the urethra 137 Diseases of the prostate 138 Diseases of the prostate 139 (a) Diseases of the uterus (b) Diseases of the uterus (c) Diseases of the breast (d) Other diseases of the female genital organs CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE 140 Abortion with septic conditions
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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1931—Continued

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		Suicide by other means	Homicides	Hon	Homicide of persons one year of age and over by cutting or piercing instruments	Homicide by other means	Accidental deathsTotal	Attack by venomous animals	Food poisoning	Accidental absorption of toxic gases	Other acute gas)	Conflagration	Accidental burns (conflagration excepted)	Accidental mechanical suffocation	Accidental drowning	Accidental injury by firearms	Accidental injury by cutting or piercing instruments	Accidental injuries resulting from falling, crushing or landslide
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TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY			CAUSES OF DEATH			CLASS I.—INFECTIOUS AND PARASITIC DISEASES	Typhoid fever	Paratyphoid fever	Smallpox	Measles	Scarlet fever	Whooping-cough	Diphtheria	Influenza Total	(a) Sole cause	(b) With bronchitis	With pneumonia	(d) With other respiratory diseases	(e) With intestinal complications
Empl					DEATHS—ALL CAUSES	CLASS I.—II	1 Typ	2 Para	6 Sma	7 Mea	8 Scar	9 Who	10 Diph	11 Influ	(a)	(p)	(e)	(p)	(e)

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Male	Female	Female	Female	Female	Female	Female						Female	Female		Female	Female	Female	Female	Female	Female	Female	Female	Female	Female Male
er causes			Poliomyelitis and polioencephalitis (acute)	Epidemic or lethargic encephalitis	Epidemic cerebrospinal meningitis			[a+c]		Tuberculosis of the meninges and central nervous system		Tuberculosis of the vertebral column	Tuberculosis of the joints (vertebral column excepted)	Tuberculosis of the skin and sub-cutaneous cellular tissue	Tuberculosis of the lymphatic system (mesenteric, retro- peritoneal and bronchial glands excepted)	Tuberculosis of the genito-urinary system	Tuberculosis of other organs	acute	Disseminated tuberculosis, chronic	fied		ases		Other diseases due to protozoal parasites
(f) With other causes	3 Dysentery	5 Erysipelas	6 Poliomyelitis	7 Epidemic or	18 Epidemic cer	21 Rabies	22 Tetanus	23-32 Tuberculosis	23 Tuberculosi	Tuberculosi	25 Tuberculosia	26 Tuberculosi	27b Tuberculosis	Tuberculosis	Tuberculosi periton	Tuberculosi	Tuberculosi	(a) Dissem	(b) Dissen	(c) Dissem	Syphilis	Gonococcus	Purulent infe	Other disease

TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS		CAUSES OF DEATH		Male	Chicken-poxFemale	German measlesFemale	Other infectious or parasitic diseasesFemale	CLASS II.—CANCER AND OTHER TUMOURSFemale	Cancer and other malignant tumours Total Female	of the buccal cavity and pharynx	Of the oesophagus France	Of the stomach and duodenumFemale	(c) Of the rectumFemale	(d) Of the liver and biliary ductsFemale	Of the pancreasFemale	(f) Of the peritoneumFemale	Of other organsFemale .	(a) Of the larynxFemale	Of the lungFemale
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(c) Of the mediastinum	Of other organs of the respiratory	Of the uterus	(b) Of the cervix uteri	Cancer of other female genital organs	Cancer of the breast	(a) Of the bladder	Of the kidney	Of the prostate gland	the testicle	other male genito-urinary organs	Cancer of the skin	(a) Of the eye and orbit	Of the o	Of the lymphatic system	Of the female urinary organs	Of the bones and joints	Of the brain	Of the spine and spinal cord	the neck	Of the pelvic viscera	Of other specified organs	Multiple cancer	(m) Of unspecified or unknown location	
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(e) Of the thyroid gland \mathbb{R}_{Fe}	Male Female	9	TI	1					60			eo		107			4
(f) Of the prostate gland	Male	-		-	1		1	1]	1	1	T	1	-	1	1	
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CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER TO GENERAL DISEASES	Total Male Female	141 67 74	37 24 13	040	4 % -	10 0 m	112		18	37	20 8 12	21 4 8	111	73 41 32	24 9	20 8	16
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Diseases of the pituitary gland Diseases of the thyroid and parathyroid glandsTotal (a) Simple goitre (b) Exophthalmic goitre (c) Myxoedema, cretinism (d) Tetany (e) Others under this title	Diseases of the thymus gland	CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING Total ORGANS ORGANS To (a) Simple purpura haemorrhagica (b) Haemophilia (c) (a) Pernicious anaemias (d) Other anaemias (e) Other anaemias (f) (g) Other anaemias	(b) Aleukaemia (Hodgkin's disease) 73 Diseases of the spleen CLASS V.—CHRONIC POISONING AND INTOXICATIONS
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		CAUSES OF DEATH	(a) Delirium tremens	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE	Encephalitis (non-epidemic)
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86 Convulsions (under 5 years of age) 87 Other diseases of the nervous system (a) Chorea (b) Neuritis	90-95 Diseases of the heart	

60 00 00 00 00 00 00 00 00 00 00 00 00 0	(c) Chronic myocarditis and myocardial degeneration (d) Myocarditis, unspecified, 45 years and over Diseases of the coronary arteries and angina pactoris (a) Diseases of the coronary arteries (b) Embolism and thrombosis of coronary arteries (c) Angina pectoris Other diseases of the heart Sub-total (a) Functional diseases of the heart (b) Others not specified Aneurysm (other than of the heart)	Male	IstoT 100 00 00 00 00 00 00 00 00 00 00 00 00		15-24 years		S 2 1 2 2 1 3 1 3 3 3 3 3 3 3	865 years 65 years	Ondition National Series	1 2 2 2 2 2 2 2 2 2	sts9V \$3-34 10 20 12 10 20 20 20 20	Tevo bas 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	betsts to N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, , , , , , , , , , , , , , , , , , , ,	Spansol wow wat Special Street	2	Nativity 1
98	Arteriosclerosis (of coronary arteries excepted)	Male Female Male Female	104 70 484,			T-11-	4	0841		-0-11	110	11	88 H 81 H		12 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	100	20 14 1
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	(b) Ulcer of the duodenum	Male Female	12		-	-	-2				1 m m	20	2			7		23
118	Other diseases of the stomach	Male	<u>r-</u> ∞	<u> </u>		11	27	-1	11	11	- 1	1 2	00		1 1		- 27	en −1
119	Diarrhoea and enteritis (under 2 years of age)	Male	100											11	100 - 53	1 1		11
120	(a) Diarrhoea and enteritis (2 years and over)	Male Female	14	10	-	-				1	1				-	11 -	1	- 1
	(b) Ulceration of the intestines (2 years and over)	Male Female	eo ⊢		1 1	11			TI	1			11		1 1	7 7	T ==	-
121	Appendicitis	Male Female	53	2 2 2 2 2 2	11	10 H	-		1	==				42	40	× 6		1 10
122	(a) Hernia	Male Female	13	4		2	1 2	7	11	1				07.07		∞ ⊢		1 6
	(b) Intestinal obstruction	Male Female	18	40	11		П	-			0110	3 2 3				10 O	9 4	12
123	Other diseases of the intestines	Male Female	44			11	1-	11	T	1-		-	1		11	127		
124	(a) Cirrhosis of the liver (alcoholic)	Male Female	1		11				11	11	- I	11					11	
	(b) Cirrhosis of the liver (not specified as alcoholic)	Male	∞ 01		П		11				- - -	1 22		122	1 1	eo	1	1 24
125	(a) Yellow atrophy of the liver	Male Female	1 2		TT				1	11	1 1 1	11			1	1-	1	11
	(b) Other diseases of the liver	Male	9	- 2			-		T	11	· ·	-				2	- 1	11
126	Biliary calculi	Male Female	9 9			11		-		11	12	12	1			2 2 2	- 1	2 2 2 2 2
127	Other diseases of the gall-bladder and biliary passages	Male Female	16		T				11	11	3 23	9 01	200	4.60		2	3 7	20 20
128	Diseases of the pancreas	Male							11	-	1-	-1			1 1	11		11
129	Peritonitis cause not specified	Male	2	7	22		1	-	1	1	2		_	-	1	60	-	2

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CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM	Acute nephritis (including unspecified, under 10 years of age)	Chronic nephritis	Nephritis not specified (10 years and over)	Other diseases of the kidney and annexa	Calculi of the urinary passages	Diseases of the bladder (tumours excepted)	(a) Stricture of the urethra	(b) Other diseases of the urethra	Diseases of the prostate	Diseases of the male genital organs (not specified as venereal)	(a) Diseases of the ovary, Fallopian tube and parametrium	(b) Diseases of the uterus	(c) Diseases of the breast	(d) Other diseases of the female genital organs under this title	XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	Abortion with septic conditions	Abortion without mention of septic conditions (haemorrhage included)	Ectopic gestation	(a) Placenta praevia	(b) Other puerperal haemorrhage	Puerperal septicaemia (not specified as consequent upon abortion)
CLASS	130	131	132	133	134	135	136		137	138	139				CLASS	140	141	142	144		145

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	CAUSES OF DEATH				years	years	rs		years	years	years		pə	pəq		I	
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146	Puerperal albuminuria and eclampsiaF	Female	11	1			-		4	[~		-	T	-	70	2	-
147	Other toxaemias of pregnancy	Female	10	- -		-		_	7	00	1		1	Ī	70	2	2
148	(a) Puerperal phlegmasia alba dolens and thrombosis	Female		-	-			 	-						-	1	
	(b) Puerperal embolism	Female	77	-	1		_		- -	27	1	T		1	-		Ī
	(c) Puerperal sudden death	Female	2	-	-	_	-	- - -		7	-	1	T	1	1	1	1
149	Other accidents of childbirthTotal Female	emale	00	T	-	<u> </u>	<u> </u>	1	2	N.	-	T	T	T	_	-	7
	(a) Caesarean section	Female	2	-	<u> </u>	<u> </u>	- -	-	1	27	1	1	1		T	1	7
	(b) Dystocia F	Female	4	1	-	· 	- <u>-</u> -		-	S		-		1	H	-	-
	(c) Instrumental delivery	Female	 -	-	· 	-		_	1	=	1			1	1		-
	(d) Rupture of uterus in partuition	Female								1		-			1	-	
	(e) Other accidents of labour	Female	=	1	-			_	-	1		-			T	1	1
150	Other or not specified condition of the puerperal state	Female	72	1	1			<u> </u>	1	2		1		1	-	1	1
X SS	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE M	Total Male Female	39	1-4 W		111		111	111	111	100		111		00 IV W	44	111
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OF THE BONES AND	Osteomyelitis	MAI	(a) Congenital hydrocephalus	EARI	Congenital debility	birthbirth	With record of caesarean operation	Other diseases peculiar to early infancy (a) Atelectasis	Ictreus of the new-born	Athrepsia (3 months and under)
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CLASS XIII.—DISEASES LOCOMOTION	Osteomyelitis Other disease (a) Diseases	CLASS XIV.—CONGENITAL MALFORMATIONS	(a) (b) s (c) (d) (d) (e) (e)	CLASS XV.—DISEASES OF EARLY INFANCY	Cong	Prem. Injur	(a)	Othe (a)	(b)	(p)
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TABLE 18-CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY, FOR THE WHOLE PROVINCE, 1931-Continued

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ndition	Married	25-44 years		-	TITI	78 60 18		20 20 1	14	1-	27 4	101	T
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Con	Single	45-64 years 65 years and over		=-	=	33 9	15 2	2		1 20	9	11	1
	Sir	25-44 years		TII		70 66		1 22	27	-	12	1-	1
		Under 15 yrs	1222-133			103 85 65 72 38 13	- 60			11	1 4		 -
		Total	122	82 44 38	10 34 32 32	531 1 426 105	104	130	21	10 0	46	12-	1
			Male Female Male Female	Total Male Female	Male Female Male	Total Male Female	Male	Female	Female	Female	Female	Female	Female
		CAUSES OF DEATH	(f) Unspecified causes (under 3 months)	CLASS XVI.—SENILITY	(b) Without senile dementia (70 years and over)	CLASS XVIIVIOLENT OR ACCIDENTAL DEATHS	163-171 Suicides Total Poisons or by absorption of	164 Suicide by poisonous gas		166 Suicide by drowning			169 Suivide hy immine from Lich which

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CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH 199 Sudden death 200 Cause of death not specified or ill-defined Rale Rale Rale Rale Rale A Accidents in mines and quarries B Accidents caused by machines C Railway accidents D Street car accidents Male Female Rale	rotal Wale Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Male Male Male Male Male Male M	ISTOT I I NOVO HER NOT I OF I			2	S S years		Condition Na.		20 STS 4 60 W 1	Midowed William Widowed	betate Journal		0000 1 100 00 100 1 100 100 100 100 100	Nativity Asitivity	A.S.U
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TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1931

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Total 5302 496 441 485 482 495 432 419 407 385 Female	CAUSES OF DEATH		Total	January	February	March						October	November	December
Total T51 T8 T9 T9 T9 T9 T9 T9 T9	DEATHS—ALL CAUSES	Total Male Female	. 5302 . 3095 . 2207	496 273 223	441 263 178	485 270 215								426 425 246 266 180 159
Paratyphoid fever Parate Parate Paratyphoid fever Paratyphoid fever Paratyphoid fever Parate Pa	CLASS 1.—INFECTIOUS AND PARASITIC DISEASES	Total Male Female	. 751 428 323	78	79 47 32	100 52 48	74 35 39	69 40 29						46 23 23
Paratyphoid fever		Male		1	- -		H	1		2	7			
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Measles Female 7 2 3 1 <t< td=""><td></td><td>Female Male</td><td> -</td><td>, L</td><td></td><td></td><td> </td><td></td><td>11</td><td></td><td></td><td></td><td></td><td></td></t<>		Female Male	-	, L					11					
Scarlet fever	Measles	Male		110	110				11		11	11	11	
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H 1	(f) With other causes	Male	- 63 0	7 7	20	9	120	110	2			, 		1

VITAL STATISTICS BRANCH

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1981—Continued

	December	119	27	-	11		11			111		11	11		Одержения		11		2
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	October		11	7	-	-1	11	11	13	10	1 2	-		11	11				-
	September	24	11	[73			11	11	15	10	-	2		11	11	11	1 2	-	11
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SH	July	63	11	11	2			-	21	18	- 2		-1	11			1-		11
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-	February		-		11		11		72	124	12				11		11	H	-
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		Male Female	Male Female	Male	Male Female	Male Female	Male	Male	Male	Male	Male	Male	Male	Male	Male	Male Female	Male Female	Male Female	Male Female
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	CAUSES OF DEATH	Dysentery	Erysipelas	Poliomyelitis and polioencephalitis (acute)	Epidemic or lethargic encephalitis	Epidemic cerebrospinal meningitis	Rabies	Tetanus	Tuberculosis	Tuberculosis of the respiratory system	Tuberculosis of the meninges and central nervous system	Tuberculosis of the intestines and peritoneum	Tuberculosis of the vertebral column	b Tuberculosis of the joints (vertebral column excepted)	Tuberculosis of the skin and sub-cutaneous cellular tissue	Tuberculosis of the lymphatic system (mesenteric, retroperitoneal and bronchial glands excepted)	Tuberculosis of the genito-urinary system	Tuberculosis of other organs	(a) Disseminated tuberculosis, acute
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1	W.	Female Male	Female Male	Male	Male	Female Male	Female Male	Female	Female Male Female	Total Male Female	tal Male	Male	Male	Male	Male	Male	Male	Male	Male	Male	Female Male	Male	Male Female	Female
(b) Disseminated tuberculosis, chronic	(c) Disseminated tuberculosis, not specified	34 SyphilisMale	al diseases	36 Purulent infection, septicaemia (non-puerperal)	39 Other diseases due to protozoal parasites	43 Mycoses Male		(b) German measles	sases		45-53 Cancer and other malignant tumours Total Male	45 Cancer of the buccal cavity and pharynx	46 (a) Of the oesophagus		(c) Of the rectum		(e) Of the pancreas	(f) Of the peritoneum	(g) Of other organs	47 (a) Of the larynx Male			(d) Of other organs of the respiratory systemFemal	48 (a) Of the uterus Femal

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1931—Continued

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	CAUSES OF DEATH	(b) Of the cervix uteri	49 Cancer of other female genital organsFemale	50 Cancer of the breast	51 (a) Of the bladder					52 Cancer of the skin	53 (a) Of the eye and orbitFemale Female	(b) Of the circulatory system (glands excepted)Female	(c) Of the lymphatic systemFemale Female	(d) Of the female urinary organs	(f) Of the brain Female	(g) Of the spine and spinal cordFemale	(h) Of the neckFemale	(i) Of the pelvic visceraFemale

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	(a) Of the ovary	(c) Of other female genital organsFemale			(g) Of other sites	: : u	Acute rheumatic fever Male Femal	59 Diabetes mellitus			65 Diseases of the pituitary gland Male Male		(a) Simple goitre Male Male	Femal Male Femal

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1931—Continued

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	CAUSES OF DEATH	(c) Myxoedema, cretinism (d) Tetany (e) Others under this title Diseases of the thymus gland Diseases of the adrenals (Addison's disease) (a) Fetty or amyloid degeneration (b) Steatosis of heart, etc. (c) Others under this title (a) Simple purpura haemorrhagica (b) Haemophilia (a) Pernicious anaemia (b) Other anaemias (c) Other anaemia (d) Other anaemia (e) Other anaemia (f) Other anaemia (g) Leukaemia (g) Leukaemia (g) Aleukaemia (h) Aleukaemia (h) Aleukaemia (h) Aleukaemia (h) Aleukaemia (h) Aleukaemia (h) Aleukaemia (h) Aleukaemia (h) Aleukaemia (h) Aleukaemia (h) Aleukaemia (h) Aleukaemia (h) Aleukaemia (h) Aleukaemia
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ICATIONS Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male	SYSTEM AND OF Total Male Female	Male Femal Male	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		thrombosisTotal Male	Male Female	Male	Softening of the brain	Hemiplegia and other paralysis, cause not specified	Male	Male	Male	Female Male	Female Male	Total Male	remaie Male	

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years of ageFemale Male and degenerationFemale Male Female Female	Diseases of the coronary arteries and angina Bub-total Male	le :	Female Male Male Male	Aneurysm (other than of the heart) Female Male Female	: ₀ :	Female Male Female	etc.) Male etc.) Female Diseases of the lymphatic system (lymphangitis, etc.) Male	a : a : c		: :	Female - Female - Female - Male - Femal

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	CAUSES OF DEATH	(b) Bronchitis, chronic	7 (a) Bronchopneumonia	(b) Capillary bronchitis		0 Pleurisy	1 Congestion and haemorrhagic infarct of the lung, etc.	2 Asthma2	3 Pulmonary emphysema	4 Other diseases of the respiratory system (tuberculosis excepted)	CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM	(b) Diseases of the buccal cavity and annexa
			107	0	109	110	111	112	113	114	CLASS	

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(b) Ulcer of the duodenum 118 Other diseases of the stomach. 119 Diarrhoea and enteritis (under 2 years and (a) Diarrhoea and enteritis (2 years and (b) Ulceration of the intestines (2 years and (b) Ulceration of the intestines (2 years and (b) Ulceration of the intestines (2 years and (b) Ulceration of the intestines (b) Ulcerdiseases of the liver (alcoholic) (b) Cirrhosis of the liver (alcoholic) (b) Other diseases of the liver (not specified (b) Other diseases of the liver (not specified (b) Other diseases of the pancreas (c) Other diseases of the pancreas (c) Other diseases of the pancreas (c) Other diseases of the pancreas (c) Other diseases of the pancreas (c) Other diseases of the pancreas (c) Other diseases of the kidney and annexa. (c) Other diseases of the kidney and annexa. (c) Other diseases of the bladder (tumours excepted (c) Diseases of the bladder (tumours excepted (c) Other diseases of the bladder (tumours excepted (c) Other diseases of the bladder (tumours excepted (c) Other diseases of the bladder (tumours excepted (c) Other diseases of the bladder (tumours excepted (c) Other diseases of the bladder (tumours excepted (c) Other diseases of the bladder (tumours excepted (c) Other diseases of the bladder (tumours excepted (c) Other diseases (c) Oth

BY MONTHS FOR THE WHOLE PROVINCE, 1931—Continued

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Female	Female	Female	Total Female	Female	Female	Female	Female	Female	Female	Total Male Female	Male Female Male Female	Male Female	Total Male Female	Male Female Male Female	Male Female	Total Male Female	Male Female
(a) Puerperal phlegmasia alba dolens and thrombosis	(b) Puerperal embolism	(c) Puerperal sudden death	Other accidents of childbirthTotal	(a) Caesarean section	(b) Dystocia	(c) Instrumental delivery	(d) Rupture of uterus in partuition	(e) Other accidents of labour	Other or not specified condition of the puerperal state	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE	Carbuncle	Other diseases of the skin and annexa and of the cellular tissue	XIII.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION	s of the bones (tuberculosis ex	(a) Diseases of the joints (tuberculosis and rheumatism excepted)	XIV.—CONGENITAL MALFORMATIONS	157 (a) Congenital hydrocephalus

TABLE 19-CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1931-Continued

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-	October		45 27 18	00 00 1
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	Total	229 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	532 283 249	88894486 110201 100000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000
		Male Female Male Female Male Female Male	Total Male Female	Male Male Male Mala Mala Male Male Female Female Female Female Female Female Female Male Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female
	CAUSES OF DEATH	(b) Spina bifida and meningocele	CLASS XV.—DISEASES OF EARLY INFANCY	159 Premature birth 160 Injury at birth 161 (a) With record of caesarean operation 161 Other diseases peculiar to early infancy (a) Atelectasis (b) Ictreus of the new-born (c) Sclerema and oedema (d) Athrepsia (3 months and under) (e) Others, including lack of care (f) Unspecified causes (under 3 months)

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	CAUSES OF DEATH		Total	Vanuary	Kehruary March	lirgA	May	June	July	August	September	TedoteO	November	December
179	Other acute accidental poisonings (except by gas)	Male Female Male	2222		-				2 1		pool			
181	Accidental burns (conflagration excepted)	Male Male	111	1 07-1-	1-2	100-	1 2 1	N - N -	1	ннн	107	- -		01
183	Accidental drowning	Female Male Female	49 15		121		1 1 1 1		1910	1987	107	00	-	
184	Accidental injury by firearms	Male Female Male	0000	4		-	01 1		2	27-1	eo	4		4
186	Accidental injuries resulting from falling, crushing or landslide	Male	161	12	17	10 m	1 10	16	∞	16	12	27	17	10
188	Injuries inflicted by animals	Male Female	₩ ₩		- 1	2	2	y		21		00		63
189	Hunger or thirst Excessive cold	Female Male	-									1	11	-
191	Excessive heat	Female Male Female	107-						2	-				
192	Lightning	Male Female	- -					-		-				
193	Accidental electric shocks	Female Male	12	11	11	1-	1		1	3		63	- C	11
198	Capital punishment	Female Male	ರಾ ರಾ				-		1.1				-	
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Total Wale Male Female	Female DEATHS (Male	Male	Male	Male	Male	Male	Male	Male	Female
CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH	200 Cause of death not specified or ill-defined	A Accidents in mines and quarries	B Accidents caused by machines	C Railway accidents	D Street car accidents	E Automobile and motorcycle accidents	F Other land transportation	G Water transportation	H Air transportation	
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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1931

		VITA	L STA	ATISTICS BRANCH
	Over 100 yrs.		111	
	96-99 years	0 0		
	90-94 years	1- W 4	111	7
	85-89 years	0410	111	
	80-84 years	17 12 12		
	STESY 97-37	52 35 17	211	
	70-74 years	63 37 26	-103	
	65-69 years	27 20 20	00	
	60-64 years	34 4 2 4 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4	rc 4 L	1
	55-59 years	34	NN	
	50-54 years	61 21 21	1200	
GES	45-49 years	44 34 10	10	
AG	40-44 years	26 26 20 20	0 ∞ ∺	
	35-39 years	37 16 21	r0 4	
	30-34 years	31 19 12	L 010	
	25-29 years	23 16 7	940	
	20-24 years	19 17	924	
	15-19 years	24 11 13	8 4 4	
	10-14 years	133	4-6	
	5-9 years	22 14 8	9 12 -	
	4 years	7-1-1	- -	
	3 years	1216	NN	
	2 years	400		
	I year	11 80 80	200	
	Under 1 year	146 84 62	10 10	
	Total	797 482 315	104 67 37	-
		Total Male Female	Total Male Female	Male Female Male Male Female Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Female Female Female Female Female Female Female Female Female Female Female
	CAUSES OF DEATH	DEATHS—ALL CAUSES	CLASS I.—INFECTIOUS AND PARISITIC DISEASES	Typhoid fever Femala Typhoid fever Femala

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Male Female	Male	Male	Male Male	Total Male	Male		Female Male	:	Male	Male	Male	Male	Male			Total Male Female	tal Male		Sub-total Male	Female	Male	Male	T. ciliale
Poliomyelitis and polioencephalitis (acute)	Epidemic or lethargic encephalitis	Epidemic cerebrospinal meningitis	Tetanus	Tuberculosis To	Tuberculosis of the respiratory system	Tuberculosis of the meninges and central nervous system	Tuberculosis of the intestines and peritoneum	Tuberculosis of the vertebral column	Tuberculosis of the joints	Tuberculosis of the genito-urinary system	Disseminated tuberculosis	Syphilis	Gonococcus infection and other venereal diseases	Purulent infection, septicaemia (non-puerperal)	Mycoses	CLASS II.—CANCER AND OTHER TUMOURS	Cancer and other malignant tumoursTotal Male	Cancer of the buccal cavity and pharynx	Cancer of the digestive tract and peritoneum	1	(b) Of the stomach and duodenum	(c) Of the rectum	
16	17	18	22	23-32	23	24	25	26	27	30	32	34	85 7G	36	43	CLASS 1	45-53	45	46				

TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1931—Continued

0		VITAL STAT	ISTIC	S BRANCE	I	
	Over 100 yrs.		1 1			
	95-99 years					
	90-94 years					
	85-89 years		1			
	80-84 years		11			
	75-79 years			1 1 1 1	-	
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	60-64 years	- - -				
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	85-89 years	1-111111	27 27			
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	15-19 years	-				
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	Under 1 year					
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			Female Female			Male Female Male Female Male Female
		Male Femal Male Femal Male Male Fema Male Male		Fe Ma		
		(d) Of the liver and biliary ducts	usSub-total Female Female	(b) Of the cervix uteri	Of the prostate gland Male Of the prostate gland Male	Cancer of the skin
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	CAUSES OF DEATH	Of the liver and biliary ducts Of other organs	ne u	Of the cervix uterier of other female ser of the breast	organs Of the kidney Of the prostate gland	ver of the skin
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4,0		56 Acute rheumatic fever 57 Chronic rheumatism, octeo-arthritis 59 Diabetes mellitus 63 Rickets 65 Diseases of the pituitary gland 66 (a) Simple goitre (b) Exophthalmic goitre 67 Diseases of the thymus gland 69 (a) Fatty or amyloid degeneration CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	
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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1931—Continued

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(e) Other diseases of the nervous sys(b) Diseases of the mastoid process	I.—DISEASES OF THE CIRCULATO	Diseases of the heartTotal Male Female Chronic endocarditis, valvular diseases Sub-total Male	(a) I	d)	(a) A (b) I	(2) (3)	(d) 1	Diseases	(a) I	(b) E	(c) A	Other diseases of the heartSub-total	(a) F	(b) C	Aneurysm (other than of the heart)	Arteriosclerosis (of coronary arteries excepted)
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	CAUSES OF DEATH	Gangrene Other diseases of the arteries Diseases of the lymphatic system (lymphangitis, etc.) Idiopathic abnormalities of blood pressure Other diseases of the circulatory system Diseases of the nasal fossae and annexa Diseases of the larynx (a) Bronchitis, acute (b) Bronchitis, acute (c) Bronchoneumonia Lobar pneumonia Pleurisy Congestion and haemorrhagic infarct of the lung, etc. Congestion system (tuberculosis excepted)
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-DIS	(a) Diseases of the buccal cavity and annexa (b) Diseases of the tonsils		Appendicitis	Other diseases of the intestines	Other diseases of the gall-bladder passages	-DISEASES OF THE GENITO-URINARY SYSTEM	Acute nephritis (including unspecified, under 10 years of age) Chronic nephritis Nephritis not specified (10 years and over) Other diseases of the kidneys and annexa Calculi of the urinary passages
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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1931—Continued

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		Diseases of the bladder (tumours excepted)		CHILDBIRTH	Abortion with septic conditions	Abortion without mention of septic conditions (haemorrhage included)	Puerperal septicaemia (not specified as consequent upon abortion)	Puerperal albuminuria and eclampsia	Other toxaemias of pregnancy	Puerperal phlegmasia alba dolens, embolism or sudden death (not specified as septic)	ASES OF THE SKIN AND CELLULAR Total Male Fema	7	and
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		Dis(a)	Disc	CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	Abo	Abo	Pue	Pue	Oth	Pue	I.—] TIS	Cellulitis, acute abscess	
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TABLE 20—CAUSES OF DEATH BY AGE AND SEX, EDMONTON, 1931—Continued

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		7	Suicides	Suicide by solid or liquid poisons or by absorp-	Suicide by hanging	Suicide by drowning	Suicide by firearms	Suicide by cutting or piercing instruments	Accidental deaths	Acute accidental poisonings (except by gas)	Conflagration	Accidental burns (conflagration excepted)	Accidental drowning	Accidental injury by firearms	Accidental injuries crushing or land	Injuries inflicted by animals	Other accidents
		VIII.	Sui	Sui	Sui	Sui	Sui	Sui	Acc	Act	Cor	Acc	Acc	Acc	Ace	Inj	Oth
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		CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	163-171						176-198			-					
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—III	den		ents	ents	ay ac	car	nobile	land	r tra	Air transportation	
CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH	199 Sudden death		Accidents in mines and quarries	Accidents caused by machines	Railway accidents	Street car accidents	Automobile and motorcycle accidents	Other land transportation	Water transportation	Air t	
YSS Y	199	The state of the s	A	B	C	D	E	F	ŗ	H	
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81 81 37 12 Foreign Отры Nativity 36 United States TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON, 1930. 1931 1000 16 British 445 262 183 65 23 23 Canada 121 54 67 000 Widowed 97 66 31 65 years 12 10 2 91 44 45-64 yrs. Married 19 97 25-44 yrs. Conjugal Condition 0 0 00 00 15-24 yrs. 16 65 years 38 10 B 45-64 yrs. Single တ က က 328 ₽₽-97 35 23 12 1100 15-24 yrs. 205 117 88 30 20 10 12200 Under 15 104 67 37 797 482 315 Total Male Female ... Male Male Female Male Male Male ... Female Total ... Male ... Female Male ... Female Male ... Female Total Male Female Male ... Female Male ... Female Male ... Female Male ... Female Male Total CLASS I.—INFECTIOUS AND PARASITIC DISEASES. With other respiratory diseases CAUSES OF DEATH With intestinal complications With other causes pneumonia (b) With bronchitis Whooping-cough DEATHS-ALL CAUSES (a) Sole cause Typhoid fever Scarlet fever Diphtheria With Influenza Dysentery Measles (p) (c) (e) (f) 6 10 00 13

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Male	Male Female	Male Female	Female	Male		Male Female	Fema	Male	Female	Female	Male	Male	Male	Male	Female	Female	Total Male Female	Male Fema Male Fema Male Fema Male Fema Male Fema Male Fema Male Fema Male Fema Male
Erysipelas	Poliomyelitis and polioencephalitis (acute)Fema	Epidemic or lethargic encephalitis	Epidemic cerebrospinal meningitisFema	Tetanus	Tuberculosis Total	Tuberculosis of the respiratory system	Tuberculosis of the meninges and central nervous system	Tuberculosis of the intestines and peritoneum	Tuberculosis of the vertebral column	Tuberculosis of the joints	Tuberculosis of the genito-urinary system	Disseminated tuberculosis	SyphilisFema	Gonococcus infection and other venereal diseases	Purulent infection, septicaemia (non-puerperal)	Mycoses	TUMOURS	Cancer and other malignant tumours
	(acute) Male Fema		Male Fema		Total	m	nervous system			the joints	system		Male Wale	al diseases	Purulent infection, septicaemia (non-puerperal)			other malignant tumours

TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON, 1931—Continued

					Conj	ıgal	Condition	tion		-	-		ž	Nativity	
CAUSES OF DEATH		Total	Under 15 yrs.	15-24 yrs.	Signature of the signat	45-64 yrs.	and over		Z5-44 yrs.	65 years	Widowed	Canada	British	States sets sets sets sets sets sets sets	Other
(d) Of the liver and biliary ducts	Male Female Male	£ 4 70 €		- 1						1 1 2 3	12	010000			
Cancer of the respiratory organsSub-total	Female Male Male	0 0 0 0							1	1 2 1	111				
the mediastinum	Female Male	-							1 1			-			
Cancer of the uterusSub-total Female	Female	12	-	-	1	-	-		10	2	3	4	4	-	60
(a) Of the uterus	Female	10	-	1	1				52	1	2 2	e0	4	1	හෙ
(b) Of the cervix uteri	Female	2	-	1	1					1			-	T	
Cancer of other female genital organs	Female	1		-	1		-						1	1	-
the breast	Male Female	12	11				-			12	12	14	120	27	-
Cancer of the male genito-urinary organsSub-total Male	Male	70	-	-	-			-		2	2 1	.23	-	-	-
(b) Of the kidney	Male	7		1	-		-			100					-
(c) Of the prostate gland	Male	ಣ	-					1				-	7	-	1
Cancer of the skin	Male	7	1	-	-		-								
Cancer of other or not specified organsSub-total	Male	10		-			-	1	121	10101	1 2 2	9 1			11-
(c) Of the lymphatic system	Male	00 00	11	TI		11		1	1	T=		1 1	1-2		
(d) Of the female urinary organs	Female		-[1		-		-		_			- American		1

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(f) Of the brain (g) Of the brain (g) Of the spine and spinal cord (h) Of the neck (i) Of other specified organs 54 Non-malignant tumours (a) Of the uterus (b) Of the thyroid gland (c) Of other sites (d) Of other sites (e) Of other sites (f) Of other sites (g) Of other sites (h) Of the brain (g) Of other sites (h) Of the brain (g) Of other sites (h) Of the brain (g) Of other sites (h) Of the brain (g) Of other sites	711

Not Stated Foreign Other Nativity United States TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON, 1931—Continued 0 9 8 British 22 10 12 07004 Canada **2** Widowed BBB 65 years and over 400 45-64 yrs. Married NNI Conjugal Condition 25-44 ALS. 15-24 65 years 45-64 yrs. Single 25-44 yrs. 50 - 50 15-24 yrs. Under 15 yrs. 35 Total Male OF Total Male Female Male Female Male Male Female Male Male Female Male Total Male Female Male Female Male Female Male Female Male ... Female Female Female Male. Male specified. THE NERVOUS SYSTEM AND SPECIAL SENSE CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS. not cause Convulsions (under 5 years of age)...... Cerebral embolism or thrombosis Hemiplegia and other paralysis, Aleukaemia (Hodgkin's disease) CAUSES OF DEATH Other diseases of the spinal cord Encephalitis (non-epidemic) Softening of the brain (d) Disseminated sclerosis (a) Cerebral haemorrhage (b) Acute alcoholism VI.—DISEASES OF THE ORGANS OF Simple meningitis (a) Leukaemia Epilepsy (q) (p) (c) 98 28 202 64 82 20 00 81 72 CLASS

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Wale Female Male Female Female	SYSTEM Male 11 Female 1	Total Male	Male Female	Endocardtis specified as chronic and other valvular Male 1 diseases of the heart	Endocarditis, unspecified, 45 years and over	Sub-total Male	Acute myocarditis	Myocarditis, unspecified, under 45 years of age	Chronic myocarditis and myocardial degeneration Male	Myocarditis, unspecified, 45 years and over	Sub-total Male 1	Diseases of the coronary arteries	Embolism and thrombosis of coronary arteries	Angina pectoris	Sub-total Male	Functional diseases of the heart	Female Male	Female Male	excepted) Male	Female Male	Female Male Female
(e) Other diseases of the nervous system	SYSTEM Male 11 Female 1	Diseases of the heart	Chronic endocarditis, valvular diseases	specified as chronic and other valvular Male 1	and overRemale	Male	Male Male	years of age	ial degeneration Male	and overMale	and angina Sub-total Male 1		arteriesMale	Female Male	Female Male	remale Male — —		Female Male	Excepted)		Female Male Female
Wale Female Male Female Female	Total 1 Male Female	Diseases of the heart	Male Female	Endocardtis specified as chronic and other valvular Male 1 diseases of the heart	Endocarditis, unspecified, 45 years and over	Sub-total Male	Acute myocarditis	Myocarditis, unspecified, under 45 years of age	Chronic myocarditis and myocardial degeneration Male	Myocarditis, unspecified, 45 years and over	Sub-total Male 1	Diseases of the coronary arteries	Embolism and thrombosis of coronary arteries	Angina pectoris	Sub-total Male	Functional diseases of the heart	Female Male	Female Male	excepted) Male	Female Male	Female Male Female

Conjugal Condition Nativity	Single Married Foreign	Total Under 15 yrs. 15-24 yrs. 45-64 yrs. 65 years and over 15-24 yrs. 65 years and over 15-64 yrs. 65 years A5-64 yrs. A5-64 yrs. C5-44 yrs. United States United States)	Total 60 20 4 4 2 2 2 2 5 8 13 36 10 3 11 Male 36 13 2 2 2 1 3 4 6 22 5 2 7 Female 24 7 2 1 1 2 4 7 14 5 1 4	Male Female 2 1 1 1 1 1 1	1	le le le le le le le le le le le le le l	11 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 2 - 2 1 - 2	2 1 2 1 2 1 2 1 2 1 .	Male 1 1 2 2 1 Female 3 1 2 2 1			Total 102 38 4 7 3 19 20 6 5 58 14 9 20 Male 67 19 3 6 3 13 16 3 4 3 6 15 3 5 15 16 7 3 6 15 3 5 15 16 7 3 6 15 15 16 7 3 6 15 15 16 7 3 1 1 22 5 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		CAUSES OF DEATH	101 Diseases of the lymphatic system (lymphangitis, etc.) 102 Idiopathic abnormalities of blood pressure	CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM	Diseases	105 Diseases of the larynx	106 (a) Bronchitis, acute	107 (a) Bronchopneumonia	108 Lobar pneumonia	110 Pleurisy	111 Congestion and haemorrhagic infarct of the lung, etc.	112 Asthma	114 Other diseases of the respiratory system (tuberculosis excepted)	CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM

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Male	Female Male	Kemale Male	Male	Male	Male	Male	Male	Female Male	Female Male	Male	Female Male	Female Male	r emale Male Female	Total	Female Male	Female Male	Female Male	Female Male	Female Male	Female Maie	Female Male	Female	Male
												ges		:	years								
(b) Diseases of the tonsils	(c) Others under this title	117 (a) Ulcer of the stomach	(b) Ulcer of the duodenum	119 Diarrhoea and enteritis (under 2 years of gae)	121 Appendicitis	122 (a) Hernia	(b) Intestinal obstruction	123 Other diseases of the intestines	124 (b) Cirrhosis of the liver (non-alcoholic)	125 (b) Other diseases of the liver	126 Biliary calculi	127 Other diseases of the gall-bladder and biliary passages	129 Peritonitis, cause not specified	CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM			132 Nephritis not specified (10 years and over)	133 Other diseases of the kidneys and annexa	134 Calculi of the urinary passages	135 Diseases of the bladder (tumours excepted)	136 (a) Stricture of the urethra	137 Disposes of the wantet	Diseases of the prostate

Conjugal Condition Nativity	Single Married Foreign	15-24 yrs. 25-44 yrs. 45-64 yrs. 65 years and over 15-24 yrs. 45-64 yrs. 45-64 yrs. Widowed Widowed Oansda United States				4							
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		Total	13	භ	H	4	П	හ	Н	481	12	-	465
		CAUSES OF DEATH	CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE Total	140 Abortion with septic conditions Female	141 Abortion without mention of septic conditions (haemorrhage included)	145 Puerperal septicaemia (not specified as consequent upon Female abortion)	146 Puerperal albuminuria and eclampsia Female	147 Other toxaemias of pregnancyFemale	148 Puerperal phlegmasia alba dolens, embolism or sudden death (not specified as septic)	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE Male	152 Cellulitis acute abscess	153 Other diseases of the skin and annexa and of the cellular Male	CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF Male

21 20	1 1 2 1 2 3 4 4 5 5 5 5 5 5 5 5	63 63 34	1. 52 % 1	4 9 2 1 4 6 4 0 2 1 4 6 4 0 0 1 4 6 1 1 4 6		1	63 11 7 10 4 1 — 11 9 7 3 29 14 5 15 15 50 6 7 9 3 1 1 — 7 9 7 1 21 12 5 12 5 12 13 5 — 13 5 — 1 1 1 — 4 — 2 8 2 — 3	13 — 2 2 — 3 4 2 — 5 4 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1
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Total Male Female	Male Female Male Female Male Female Male Male Male Female	Total Male Female	Male Female Male Female Male Male Male	Total Male Female Male Female Female Male Female Male Male Male	Total Male Female	Male Female and over) Female Female	ATHSMale	by absorption of Male Female Female Female Female

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12 100-Foreign Other Nativity United States British Widowed 65 years 45-64 yrs. Married 25-44 yrs. Conjugal Condition ₹7-9I 65 years ₹9-9₹ Single 25-44 yrs. 15-24 yrs. Under 15 yrs. 37 LetoT Male Female Male Male Female Male Male Female Male Female Male Male Male Female Male Female Male Female Male Female Male Female Total Male Female Female Female Male crushing TABLE 21.—CAUSES OF DEATH FOR EACH SEX gas). (except by falling, CLASS XVIII.--ILL-DEFINED CAUSES OF DEATH Suicide by cutting or piercing instruments Accidental burns (conflagration excepted) from Suicide by hanging or strangulation CAUSES OF DEATH Other acute accidental poisonings Other accidents resulting Accidental injury by firearms Injuries inflicted by animals drowning firearms Accidental drowning Accidental injuries Accidental deaths Sudden death Conflagration by by Suicide Suicide 199 165 991 167 168 179 081 181 183 184 176-198 188 194

BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON, 1931—Continued

SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLIDED ALSO IN THE PRECEDING TARIE) FOMONTON

							Air transportation
A Accidents in mines and	B Accidents caused by ma	C Railway accidents	D Street car accidents	E Automobile and motorcyc	Other land transportation	Water transportation	H Air transportation
	A Accidents in mines and quarries	R IN C	EMEME	-			

TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1931

Total 797 To	Total 797 Total 797 Total 797 Total 797 Male 68 Male 68 Male 68 Male 69 Male 69 Male 69 Male 69 Male 69 Male 69 Male 60 Male 6	Total 797 Total 797 Total 797 Temale 24 Secondary Male 67 104 Secondary Male 67 104 Secondary Male 67 104 Secondary Male 67 104 Secondary Male 67 104 Secondary Male 67 104 Secondary Male 67 105 Secondary Male 67 105 Secondary Male 67 106 Secondary Male 67 106 Secondary Male 67 106 Secondary Male 67 106 Secondary Male 67 107 Secondary Male 67 107 Secondary Male 68 15 Secondary Male 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Tota	Total Tota		CAUSES OF DEATH		CLASS I.—INFECTIOUS AND PARASITIC DISEASES	Typhoid fever	Measles	Scarlet fever	Whooping-cough	Diphtheria	Influenza Total	Sole cause	With bronchitis	With pneumonia	With other respiratory diseases	With intestinal complications	With other causes	
Total Total	Total With the state of the st	Total 19, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	MONTHS Total T	Montary Tabor 7.8.8. 1.0.2. 1.0.2. 1.0.2. 1.0. 1.0. 1.0. 1.				Total Male Female	_	Male Female	Male Female	Male	Male Female		Male Fertale	Male Female	Male	Male	Male	Male Female	Male Female
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TABLE 22.--CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1931--Continued

CAUSES OF DEATH									M	MONTHS	7/0					
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(e) Of the breast and joints Sub-total Male (b) Of the female genito-urinary organs Sub-total Male (c) Of the breast with the prostate gland (d) Of the female uninary organs Sub-total Male (e) Of the breast uninary organs Sub-total Male (e) Of the breast uninary organs Sub-total Male (e) Of the female uninary organs Sub-total Male (e) Of the female uninary organs Sub-total Male (e) Of the female uninary organs Sub-total Male (e) Of the female uninary organs Sub-total Male (f) Of the female uninary organs Sub-total Male (f) Of the female uninary organs Sub-total Male (f) Of the female uninary organs Sub-total Male (f) Of the female uninary organs Sub-total Male (f) Of the female uninary organs Sub-total Male (f) Of the female uninary organs Sub-total Male (f) Of the female uninary organs Sub-total Male (f) Of the female uninary organs Male (f) Of the female uninary organs Male (f) Of the female uninary organs Male (f) Of the bones and joints Male (f) Of the bones and joints Male (f) Of the bones and joints (f) Of the bones and joints (f) Of the female uninary organs (f) Of the female uninary organs (f) Of the bones and joints (f) Of the bones and joints (f) Of the bones and joints (f) Of the female uninary organs (f) Of the final organs (f) Of the following (f) Of the following (f) Of the female uninary organs (f) Of the final organic (f) Of the following (f) Of the following (f) Of the final orga	47	Sub-total	lale	60	-				-		777		-	1	1	
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Cancer of other temale genital organs Female 1 Female 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 2 1			emale	10	-		7	-	1	7	27					
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Cancer of the male genito-urinary organs	20	of the breast	fale	12		-	11	01	2	- -	1-	12	707		1	
(c) Of the kidney	51	organs	Iale	70		-	-				-			-	-	
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Cancer of other or not specified organs	52		Tale	7			1		Ī	1		T		1	Ī	
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TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1931—Continued

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	CAUSES OF DEATH	(a) Leukaemia	CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS	(b) Acute alcoholism	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OTHE ORGANS OF SPECIAL SENSE	Encephalitis (non-epidemic)	Simple meningitis	Other diseases of the spinal cord	Cerebral haemorrhage	Cerebral embolism or thrombosis	Softening of the brain	(d) Hemiplegia and other paralysis, cause not specified		Convulsions (under 5 years of age)	(d) Disseminated sclerosis	(e) Other diseases of the nervous system

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TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1931—Continued

Idiopathic abnormalities of blood pressure Other diseases of the circulatory system. III.—DISEASES OF THE RESPIRATORY SYSTEM. Diseases of the nasal fossae and annexa Other diseases of the larynx (a) Bronchitis, acute Cobar pneumonia Pleurisy Congestion and haemorrhabic infarct of the lung, etc. Asthma Other diseases of the respiratory system (tuberculosis excepted) C—DISEASES OF THE DIGESTIVE SYSTEM	IstoT QWW HILL QQW	VIEUREL	Vacurday	March		9nut	4 w =	Tedmetqe2	TedoboO	November	December
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(c) Others under this title	117 (a) Ulcer of the stomach		119 Diarrhoea and enteritis (under 2 years of age)	121 Appendicitis Male	122 (a) Hernia Male	(b) Intestinal obstruction Male	123 Other diseases of the intestines	124 (b) Cirrhosis of the liver (non-alcoholic)	125 (b) Other diseases of the liver	126 Biliary calculi Male	l biliary passages	129 Peritonitis, cause not specified	CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM Male	130 Acute nephritis (including unspecified, under 10 years Male		132 Nephritis not specified (10 years and over)	Fema. 133 Other diseases of the kidneys and annexa	134 Calculi of the urinary passages	135 Diseases of the bladder (tumours excepted)	Femal Stricture of the urethra	Femal Male	CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	140 Abortion with septic conditionsFemale

TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1931—Continued

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	CAUSES OF DEATH	141 Abortion without mention of septic conditions (haemorr-hage included)	145 Puerperal septicaemia (not specified as consequent upon abortion)	146 Puerperal albuminuria and eclampsia	147 Other toxaemias of pregnancy	148 Puerperal phlegmasia alba dolens, embolism or sudden death (not specified as septic)	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE	152 Cellulitis, acute abscess	153 Other diseases of the skin and annexa and of the cellular tissue	CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION	154 Osteomyelitis	CLASS XIV.—CONGENITAL MALFORMATIONS	157 (a) Congenital hydrocephalus

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(b) Spina bifida and meningocele	158 Congenital debility 159 Premature birth 160 Injury at birth	(c) Sclerema and oedema	CLASS XVI.—SENILITY	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	163 Suicide by solid or liquid poisons or by absorption corrosive substances 165 Suicide by hanging or strangulation 166 Suicide by drowning 167 Suicide by firearms

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Мочетрег October September BY MONTHS, IN EDMONTON, 1931-Continued August MONTHS anı əunr May lingA March February January 4221 NN Total TABLE 22-CAUSES OF DEATH FOR EACH SEX Male Female Male Female Male Female Total Male Female Male Female Male Female Male Female Male Female Male Female Male Female or Accidental injuries resulting from falling, crushing landslide Other acute accidental poisonings (except by gas) ... CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH Suicide by cutting or piercing instruments Accidental burns (conflagration excepted) CAUSES OF DEATH Accidental injury by firearms Injuries inflicted by animals Accidental drowning Accidental deaths ... Other accidents Conflagration Sudden death 194 199 179 184 176-198 180 183 181

SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE), EDMONTON, 1931

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A Accidents in mines and quarriesFema	B Accidents caused by machines	C Railway accidents Female	D Street car accidents Male	E Automobile and motorcycle accidents	Other land transportation	Water transportation Male	H Air transportation	

TABLE 23.—CAUSES OF DEATH BY SEX AND AGE, IN CALGARY, 1931

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	CAN		Cancer of the male genito-urinary organs
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	CAUSES OF DEATH	(a) Of the bladder	(b) Of the kidney	(c) Of the prostate gland	52 Cancer of the skin	53 Cancer of other not specified Sub-total Male organs		(e) Of the bones and joints		(k) Multiple cancer	54 Non-malignant tumours	(a) Of the ovaryFemale	(b) Of the uterusFemale	(e) Of the thyroid gland Female	55 (d) Tumour of the brain, nature not specified. Female	CLASS III.—RHEUMATIC DISEASES, DISEASES OF Total	56 Acute rheumatic feverFemale
	Total Under 1 yr.			-	 	-19	111		1	1 -	1 9	-	4		100	13	
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TABLE 23.—CAUSES OF DEATH BY SEX AND AGE, IN CALGARY, 1931—Continued

3		VITAL STATISTICS BRANCH
1	Not stated	
	100 years	
	95-99 years	
	90-94 years	
	85-89 years	
	80-84 years	
	75-79 years	
	70-74 years	1
	65-69 years	1 0 0 0 0 0 0 0 0 0
	60-64 years	
	55-59 years	
	50-54 years	
AGES	45-49 years	
A(40-44 years	
	85-39 years	
	30-34 years	
	25-29 Years	
	20-24 years	
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	2 years	
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	Under I yr.	
	Total	11 01 1 11 020 0.04 1.4 1.4 1.7
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		and other paralysis, cause not d sclerosis ses of the nervous system mastiid process Carditis nyocarditis, valvular diseases myocarditis and myocardial devarditis unspecified, 45 years and over coronary arteries and angina suche coronary arteries. Sub-total
		us system LATORY Rar diseases Sub- myocardial years and aries and al arteries
		of the nervous system of the nervous system stild process
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	DEATH	the rosis to be ro
		d of or scale of the orthogonal o
	0	ia and other par ated sclerosis eases of the ner he mastiid proces S OF THE CIRC docarditis, valv he myocarditis myocarditis and n itis, unspecified, the coronary ar
	CAUSES OF	plegia a ied
	CA	(d) Hemiplegia and other paralysis, cause not graph of specified and other paralysis, cause not be specified and other paralysis, cause not be specified and other diseases of the nervous system and biseases of the mastid process and angine and biseases of the heart and angine and male and corrected and angine and myocardized and angine and myocardized and angine and myocardized and angine and biseases of the coronary arteries and angine and become and angine and biseases of the coronary arteries and angine and biseases are an and biseases and biseases and biseases and biseases and biseases and biseases and biseases are an angine and biseases and biseases and biseases and biseases and biseases and biseases and bise
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lism and thrombosis of coronary les a pectoris eases of the heart erosis (of coronary arteries excepted) eases of the arteries , haemorrhoids, itis, etc.) abnormalities of blood pressure ASES OF THE RESPIRATORY of the nasal fossae and annexa hopneumonia and haemorrhagic infarct of the etc. ases of the respiratory system (tuber-is excepted) ases of the respiratory system (tuber-is excepted)	SYSTEM.	ann
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(c) Embolism and thrombosis of coronary arteries	EASE	(a) Diseases of the buccal cavity and annexa
(c) Emboli arteriee (c) Angina Other disea Aneurysm Arterioscler Gangrene . Other disea Diseases of phlebit Idiopathic a II.—DISEA SYSTEM Diseases of Bronch Lobar pneu Pleurisy Congestion Pleurisy Congestion dung, e Asthma Other disease other disease	DISE	Dis
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(c) Angina pectoris (c) Angina pectoris (d) Angina pectoris (e) Angina pectoris (f) Angina pectoris (g) Aneurysm (other than of the heart) (g) Arteriosclerosis (of coronary arteries excepted) (g) Arteriosclerosis (of coronary arteries excepted) (g) Arteriosclerosis (of coronary arteries excepted) (g) Arteriosclerosis (of coronary arteries excepted) (g) Arteriosclerosis (of coronary arteries excepted) (g) Arteriosclerosis (of coronary arteries excepted) (g) Arteriosclerosis (of coronary arteries excepted) (g) Arteriosclerosis (of coronary arteries excepted) (g) Arteriosclerosis (of coronary arteries excepted) (g) Arteriosclerosis (of coronary arteries excepted)	CLASS IX.—DISEASES OF	115
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	CAUSES OF DEATH	Diseases of the tonsils	(c) Others under this title	(a) Ulcer of the stomach	(b) Ulcer of the duodenum	Diarrhoea and enteritis (2 years and over)	Appendicitis	(a) Hernia	(b) Intestinal obstruction	Other diseases of the intestines	(a) Cirrhosis of the liver, specified as alcoholic	(b) Cirrhosis of the liver not specified as alcoholic	(a) Yellow atrophy of the liver	(b) Other diseases of the liver	Biliary calculi	Other diseases of the gall-bladder and biliary passages	Diseases of the pancreas
		Male Female	Female	Male	Male Male Female	Male Female	Male	Male	Male Female	Male		Male	Male	Male	Male	Male	Female Male Female
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Peritonitis, cause not specified	ASE	Acute nephritis (including unspecified, under 10 years of age)	ner	Nephritis not specified	Other diseases of the kidneys and annexa	Calculi of the urinary passages	Diseases of the bladder (tumours excepted)	Diseases of the urethra,	Jo s	Diseases of the ovary, Fallopian tube and parametrium	Diseases of the uterus	EASE	HE		tion without mention (haemorrhage included)		Other toxaemias of pregnancy	(a) Caesarean	EAS	Cellulitis, acute abscess
riton	DISEAS SYSTEM	ute	Chronic	phrit	her	lculi	sease	sease	Diseases			DISI	Z O	Abortion	Abortion (haen	Puerperal quent	her t) Ca	I.—DISE TISSUE	llulit.
	X.—DISEASES SYSTEM									(a)	(p)	XI.	AND THE PUERPERAL STATE						XII.	
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TABLE 23.--CAUSES OF DEATH BY SEX AND AGE, IN CALGARY, 1931--Continued

		VI	TAL ST	ATIS	TICS BRANC	СН	
	100 years and over Not stated						
	95-99 years			111			
	90-94 years						
	85-89 years					111	
	80-84 years	111					
	75-79 years					111	
	70-74 years						
	69-99 years	111		111		111	
	60-64 years					III	
	55-59 years		TIII				
	50-54 years		11-1				
ES	45-49 years					111	
AGES	40-44 years					111	
	35-39 years	TIII					
	30-34 years						
	25-29 years						
	20-24 years						
	15-19 years		-				
	10-14 years					111	
	5-9 years	TIT		111			
	4 years			111			
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	Under 1 yr.			00 ID W		49 26 23	1 1 2 1 2 4 1 4 10 20 20 1 1 1 2 2
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		o o	υ υ	Total Male Female	0 0 0	Total Male Female	0 0 0 0 0 0 0
		Total Male Female	Male Female Male Female	Total Male Female	Male Female Female Female Female Female	Total Male Female	Male Female Female Female Rale Male Male Female Male Female Female Male Female
	CAUSES OF DEATH	CLASS XIII.—DISEASES OF THE BONES AND ORGANS Total OF LOCOMOTION Male Female	Osteomyelitis Os	CLASS XIV.—CONGENITAL MALFORMATIONS	(a) Congenital hydrocephalus	CLASS XV.—DISEASES OF EARLY INFANCY	Premature birth (b) Injury at birth Other diseases peculiar to early infancyTotal
		CLASS XII	154	CLASS XI	L- 10 m	CLASS XV	1600 1 1610 1 1610

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II Z	With senile dementia	IOL	:	Suicide by solid or liquid poisons or by absorption of corrosive substances	Suicide by hanging or strangulation	Suicide by drowning	Suicide by firearms	Suicide by cutting or piercing instruments	des	Accidental deaths	Accidental absorption of toxic gases	Other acute accidental poisonings (except	Conflagration	Accidental burns (conflagration excepted)	Accidental drowning	Accidental injuries resulting from falling.	Injuries inflicted by animals	Accidental electric shocks	Other accidents	
-SE	A A	\ \ \	Suicides	cide	cide	cide	cide	cide	Homicides	ider	ider	er	flag	ider	ider	ider	iries	iden	er a	
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CLASS XVI.—SENILITY	162	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	17	163	165	166	167	168	25	98	178	179	180	181	183	186	188	193	194	
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TABLE 23 (Continued) -- SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE), CALGARY, 1931

		VITAL STATISTICS B
1	Not stated	
	Over 100 yrs.	
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	90-94 years	
	85-89 years	
	80-84 years	
	75-79 years	
	70-74 years	
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	20-24 years	
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	4 years	
	3 years	
	2 years	
	1 year	
	Under 1 yr.	
	Total	H
		Male Female Male Female Male Male Female Male Female Female Female Female Female Female Male Female Male Female Male Female Male Male
		Accidents in mines and quarries Accidents caused by machines Railway accidents Street car accidents Automobile and motorcycle accidents Other land transportation Water transportation Air transportation
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	USE	min lsed dent cid nd nans oort
	CAUSES OF DEATH	in cau
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		Accidents in mines and quarries Accidents caused by machines Railway accidents Street car accidents Automobile and motorcycle accidents Other land transportation Water transportation Air transportation
		A Accidents in mines and quarries B Accidents caused by machines C Railway accidents D Street car accidents E Automobile and motorcycle accidents F Other land transportation G Water transportation H Air transportation
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TABLE 24.--CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN CALGARY, 1931

Total Female Total Total Female Total Female Total Total Female Total Tot				-			Con	iugal	Conc	Conjugal Condition					Z	Nativity	Α	
Total Female Total Total Female Total Total Total Total Total Total Total Total Total Total T				*s		Sing	gle			Maı	ried					Foreign	ign	
Female 695 130 23 34 46 22 5 66 153 Female 285 57 11 25 34 8 4 4 33 62 Female 20 7 1 5 5 1 1 5 5 Female 20 7 1 5 5 1 1 5 5 Female 20 7 1 1 5 5 1 1 6 5 Female 20 7 1 1 5 5 1 1 6 5 Female 20 7 1 1 5 5 1 1 6 5 Female 20 7 1 1 1 1 1 Female 20 7 1 1 1 1 Female 20 7 1 1 1 1 Female 20 1 1 1 1 1 Female 3 1 1 1 1 1 Female 20 1 1 1 1 Female 20 1 1 1 1 Female 20 1 1 1 Female 20 1 1 1 Female 10 3 3 3 Female 10 3 3 3 Female 10 3 3 3 Female 10 3 3 46 22 5 Female 10 3 3 3 Female 10 3 3 3 Female 10 3 3 3 Female 10 3 3 3 Female 10 10 3 3 Female 10 10 10 Female 10 10	CAUSES OF DEATH		IstoT	Under 15 yr			65 years		15-24 years	25-44 years		and over	Widowed	Canada	British	United	Отрет	Not Stated
Total Male	DEATHS—ALL CAUSES	le		30 73 57					n = 4	333	153 91 62	93	123 50 73	353 201 152	196 118 78	51 31 20	90 24 34	ro 4 -
Male Male — </td <td>CLASS I.—INFECTIOUS AND PARASITIC DISEASES</td> <td>Total Male Female</td> <td>57 37 20</td> <td>41</td> <td></td> <td></td> <td></td> <td></td> <td>-1-</td> <td>122</td> <td>7000</td> <td>NN</td> <td>P100</td> <td>28</td> <td>000</td> <td>ro 4 -</td> <td>101</td> <td> </td>	CLASS I.—INFECTIOUS AND PARASITIC DISEASES	Total Male Female	57 37 20	41					-1-	122	7000	NN	P100	28	000	ro 4 -	101	
Scarlet fever		Mala	1										1	1)	4	+	
Whooping-cough Female 1 1 —		Female						T	ŢŢ			11	11		11			11
Total Male 1 1 1 1 1 1 1 1 1	Whooping-cough	Female	-							11			11	11,		11		11
Total Male	Diphtheria	Female	1-		-	 	-				IT	11	11	7	П			11
(c) With pneumonia Female 1 1 1 1 1 1 1 1 1	Influenza		H 60 4	010				П		-	11	H	-	eo	T		H	11
(f) With intestinal complications	With pneumonia		· ω –	101-						-	П	П		20 00	-	-		11
Female 1	(e) With intestinal complications	Female	1 - 0		-					1-1-	11	11			TT		11	
Erysipelas Male 3 1 1 - <		Female		1-						-		ΙŢ	-		7	11	-	11
Epidemic or lethargic encephalitis Female 1		Female	000					. [1	1	11	11				-	=	11
Epidemic cerebrospinal meningitis Female 1 1 1 1 1 1 1 1 1	Epidemic or lethargic encephalitis	Female	1-0	-			-		11		11	T		67	-	11	11	
Tuberculosis of the respiratory system		Female	1	-			1	11			=		11	21	11		11	11
Tuberculosis of the respiratory system Male Female 10 2 2 2 2 2 1 3 1 1 2 1 2 2 2 2 1 1 2 1 2	Tuberculosis		1 1	1	-						11	11	11	-	11	T	11	
	Tuberculosis of the respiratory system		1001	m -	1	111				⊕ 10 10 11	NAHH	0 0		10 to to	W 01 01 -	- -	00 W 40	

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1931—Continued	1			
			Widowed	
CALGARY		-	65 years	
CAI	-	Married	45-64 years	
Z	Condition	M	25-44 years	
NATIVITY,	Con		15-24 years	
ATIV	Conjugal		Not stated	
Z	Conj	gle	65 years and over	
AND	İ	Single	45-64 year	
NOI			15-24 years	
CONDITION			Under 15 yrs	
			IMA	2001 2111 1 2 21 860 84 221 4000 41000000
GAL				
CONJUGAL				
LH.				
TABLE 24.—CAUSES OF DEATH FOR EACH SEX BY			CAUSES OF DEATH	24 Tuberculosis of the intestines and peritoneum 25 Tuberculosis of the intestines and peritoneum 30 Tuberculosis of the genito-urinary system 32 (a) Disseminated tuberculosis, acute (b) Disseminated tuberculosis, chronic 34 Syphilis 35 Gonococcus infection and other veneral diseases 36 Purulent infection, septicaemia (non-puerperal) 46-53 Cancer and other malignant tumours 46 Cancer of the digestive tract and pharynx 46 Cancer of the digestive tract and peritoneum Sub-total (b) Of the stomach and duodenum (c) Of the rectum (d) Of the liver and biliary ducts (e) Of the pancreas (e) Of the pancreas
				CLASS 1 22 24 45-53 1 46 46 46 46 46 46 46 46 46 46 46 46 46

				2									2 1 2 1 1 1 1 1 1 1			
(g) Of other organs	48 (a) Cancer of the uterusFemale	49 Cancer of other female genital organsFemale	50 Cancer of the breast Female 5	51 Cancer of the male genito-urinary organsSub-total Male	(a) Of the bladder Male	(b) Of the kidney Male	(c) Of the prostate gland Male	 :	(d) Of the female urinary organs Female	(e) Of the bones and joints	· ·	1	54 Non-malignant tumours	(a) Of the ovaryFemale	(b) Of the uterus Female	(e) Of the thyroid gland

TABLE 24.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN CALGARY, 1931—Continued

			-			Con	Conjugal Condition	Conc	lition					Nat	Nativity		1
			S		S	Single			Ma	Married	-				Foreign	u	
	CAUSES OF DEATH		Total Under 15 year	15-24 years	25-44 years	45-64 years	Not stated	15-24 years	25-44 years	45-64 years	65 years and over	Widowed	Canada	British	United States	Отрел	Not Stated
CLASS	CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER Total GENERAL DISEASES	٥	22 13 9	400	711	112	- -			1-104	44		27.2	ro 4	717	2 - 3	111
56	Acute rheumatic fever	٥			11	Ī								-		11	
57	Chronic rheumatism, osteo-arthritis	le le	1 0		1-	11	1-	 	11	1	11		1		11		11
59	Diabetes mellitus	e	()	11		H				12	4	-	41	00			
99	(a) Simple goitre	9	1-		11	TH	T	 					1			T	11
	(b) Exophthalmic goitre	و						-			1.1				11		11
	(d) Tetany Male Female	e	1-	1		11		11					1		11		11
89	Diseases of the adrenals (Addison's disease)	le	2			T				-		11	-	-		11	11
CLASS 1	CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING Total Male Female	le .	11 4 7	-1-		NN			0 0	123		1 1	0000	pre pre			111
7.0	(a) Simple purpura, haemorrhagia	Je Je	1-	1-				-					1	11			
7.1	(a) Pernicious anaemiaFemale	le	∞ ⊢		11	-				7	11	-		11	-	71	
	(b) Other anaemiasFemale	e	-					11				ĪĪ	17				11
72	(a) LeukaemiaFemale	le	co	11	1-	-			61			11	-1 60				11
73	Diseases of the spleen	le	1-			TI	11			T		TT	TT	1-	11	11	11

					11-				1				1				-	
TII				TI	-							13	6	4		1	03 60	
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Total Male Female	Male Female Male Female	OF Total Male Female	Male Female	Male	Female	Female Male Female	Male Femal		Male		Female	Total Male Female	tal Male	Male Female	Male Female		Male Female	
Total Male Femal		OF Total Male Femal	e	Male Female	Female Male	Female Male Female	Male Femal		remale Male Female		.le	Total Male Female	Total Male	Male Female	Male		Male Female	le
Total Male Femal		AND OF Total Male Femal	e	Male Female	Female Male	Female Male Female	specified Male Femal		Male Female		.le	Total Male Female		Male	Male Female		e :	le
Total Male Femal		AND OF Total Male Femal	e	Male Female	Female Male	Female Male Female	not specified Male Femal				.le			Male	Male	Male	Male Female	le
Total Male Femal	Male Femal Male Femal	SYSTEM AND OF Male Femal	Male				not specified Male Femal	Femal		Male	Male Female	Y SYSTEMMale	Total			easesFemale	Sub-total Male Female	Male Female
Total Male Femal	Male Femal Male Femal	SYSTEM AND OF Male Femal	Male				not specified Male Femal	Femal		Male	Male Female	Y SYSTEMMale	Total			easesFemale	Sub-total Male Female	Male Female
Total Male Femal	Male Femal Male Femal	SYSTEM AND OF Male Femal	Male Female				not specified Male Femal	Femal		Male	Male Female	Y SYSTEMMale	Total			easesFemale	Sub-total Male Female	Male Female
Total Male Femal	Male Femal Male Femal	SYSTEM AND OF Male Femal	Male Female				not specified Male Femal	Femal Male		Male	Male Female	Y SYSTEMMale	Total			easesFemale	Sub-total Male Female	Male Female
Total Male Femal	Male Femal Male Femal	SYSTEM AND OF Male Femal	Male Female				not specified Male Femal	Femal Male		Male	Male Female	Y SYSTEMMale	Total			easesFemale	Sub-total Male Female	Male Female
Total Male Femal	Male Femal Male Femal	SYSTEM AND OF Male Femal	Male Female				not specified Male Femal	Femal Male		Male	Male Female	Y SYSTEMMale	Total			easesFemale	Sub-total Male Female	Male Female
Total Male Femal	Male Femal Male Femal	OF THE NERVOUS' SYSTEM AND OF TOTAL OF SPECIAL SENSE	Male Female				not specified Male Femal	Femal Male		Male	Male Female	Y SYSTEMMale	Total			easesFemale	Sub-total Male Female	Male Female
Total Male Femal	Male Femal Male Femal	OF THE NERVOUS' SYSTEM AND OF TOTAL OF SPECIAL SENSE	Male Female				iplegia and other paralysis, cause not specified. Male Femal	Femal Femal Male		Male	Male Female	Y SYSTEMMale	Total			easesFemale	Sub-total Male Female	Male Female
Total Male Femal	Delirium tremens Male Femal Acute alcoholism Femal Femal	OF THE NERVOUS' SYSTEM AND OF TOTAL OF SPECIAL SENSE	Male Female				iplegia and other paralysis, cause not specified. Male Femal	Femal Femal Male		Male	Male Female	Y SYSTEMMale	Total		Acute endocarditis	Chronic endocarditis, valvular diseases	Sub-total Male Female	Male Female
Total Male Femal	(a) Delirium tremens	OF THE NERVOUS' SYSTEM AND OF TOTAL OF SPECIAL SENSE	Male			(b) Cerebral embolism or thrombosis	lysis, cause not specified. Male	Femal Femal Male	(e) Other diseases of the nervous system	Male Femal	.le	Y SYSTEMMale				easesFemale	rdium Sub-total Male Female	Male Female
Total Male Femal	Delirium tremens Male Femal Acute alcoholism Femal Femal	OF THE NERVOUS' SYSTEM AND OF TOTAL OF SPECIAL SENSE	Male Female		Other diseases of the Spinal cord		iplegia and other paralysis, cause not specified. Male Femal	(d) Disseminated sclerosis Male		Male	Male Female	Y SYSTEMMale	Diseases of the heartTotal		Acute endocarditis	Chronic endocarditis, valvular diseases	Sub-total Male Female	Male Female
	(a) Delirium tremens	SYSTEM AND OF Male Femal	Encephalitis (non-epidemic)	Simple meningitis	Corer diseases of the Spinal cord		(d) Hemiplegia and other paralysis, cause not specified. Male Femal Familians.	(d) Disseminated sclerosis Male		Diseases of the mastoid process	Male Female	SYSTEMMale	Total	Pericarditis	(a) Acute endocarditis	(a) Chronic endocarditis, valvular diseases	Diseases of the myocardium	Male Female

TABLE 24—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN CALGARY, 1931—Continued

						Conjugal		Condition	ion					Nativity	ity	
			°s		Single	rle			Married	ed				4	Foreign	
	CAUSES OF DEATH		Under 15 yr	15-24 years	25-44 years	45-64 years	and over Not stated	15-24 years	25-44 years	45-64 years	65 years and over	Widowed	Canada	British United	States	Not Stated
	(c) Chronic myocarditis and myocardial degeneration Fe (d) Myocarditis, unspecified, 45 years and over	Male	23.3			12	112		07	177	607	12 9	113	13	10 01 H	0707
94	Diseases of the coronary arteries and angina pectoris Sub-total		1 22		H	ಣ	63		07 +	13	00	7 07	133	10	4	1 10,
	(a) Diseases of the coronary arteries		<u>54 </u>						-	2	1-1	4	1 - 0	-		72
	Embolism and thrombosis of coronary arteries		212	11		m	2	11	12	00	eo	21 21	∞ ⊢	6-1	-	6 -1
	(c) Angina pectoris \mathbb{R}^{-1}	Male Female	2 2 2		H					eo	4	12	40		2	1 1
95	Other diseases of the heart			11				TI		-		-	T-			
	96 Aneurysm (other than of the heart)		121		T	-				1	-		1	1	-	-
97	Arteriosclerosis (of coronary arteries excepted)		119			-	61.07			0.4	00 0	100	t- 00	100		60
98	Gangrene			 -	1	-		1	1	T	1) '	1			<u> </u>
66	Other diseases of the arteries	: :			-							-				11
100	Diseases of the veins (varices, haemorrhoids, phlebitis, etc.)	Male														
102	Idiopathic abnormalities of blood pressure	Female Male Female	111		TIT				-	1 2	1-1	HH	0001			
CLASS	CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEMF	Total Male	59 1 24	14 3 7 2 2	m m	m m			ro w or	122	040	11 20	27 16 11	22 14 8	400	9 8 8
104	104 Diseases of the nasal fossae and annexa $\mathbb{F}_{\mathbb{F}}$	Male Female						11	1!	11		11			-	-

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w w w w w w	le .	Male Female Male	le	Male Female	o o				Male	е е е
Male Female Female Male Female Male Female Male Female Male Female Male Fema	SYSTEM	(a) Diseases of the buccal cavity and annexa	Diseases of the oesophagus	(a) Ulcer of the stomach	Diarrhoea and enteritis (under 2 years of age)	Appendicitis Female Fem	(a) Hernia Male Male Female (b) Intestinal obstruction Male Male	Other diseases of the intestines	(a) Cirrhosis of the liver, specified as alcoholic	(a) Yellow atrophy of the liver
Male Female Male Female Male Female Male Female Female Male Female Male Female Male Female Male Female Male Female Male Female Male Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female	YSTEM	Diseases of the buccal cavity and annexa	Diseases of the oesophagus	1	of age)	Female Male	Male Female Male	Female	alcoholic	d as alcoholic

Nativity Foreign	British United States Chief	- -	440 01-101 01 1 1 1 1 1 1 1 1
	Widowed		21
Married	45-64 years 65 years and over		0.00 4-1
Conditio	Not stated 15-24 years		
Conjugal	and over		ww
-	Under 15 yrs	1 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	252 3352 117 111 111 111 111 111 111 111 111 11
	IsjoT	Male Female Male Female Female Female Female Male Female Male Male Female	
	CAUSES OF DEATH	(b) Other diseases of the liver Biliary calculi Other diseases of the gall-bladder and biliary passages Diseases of the pancreas Peritonitis, cause not specified	CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM. 130 Acute nephritis including unspecified (under 10 years of age). 131 Chronic nephritis of specified (10 years and over). 132 Nephritis not specified (10 years and over). 133 Other diseases of the kidneys and annexa bremale remale remale of the urinary passages to the bladder (tumours excepted). 134 Calculi of the urethra, urinary abscess, etc. 135 Diseases of the prostate bladder (tumours excepted). 137 Diseases of the prostate wall overy, Fallopian tube and peritoneum Female of the ovary, Fallopian tube and peritoneum Female
		126 127. 128	CLASS X 130 131 132 133 134 136 137

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Total	Female	Female	Female	Female	Female	Total Male Female	Male Female	F Total Male Female	Female Male Male Female	Total Male Female	Male Female Male Female Female Male	Total Male Female	Male Female Male
CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	140 Abortion with septic conditions	141 Abortion without mention of septic conditions (haemorn-hage included)	145 Puerperal septicaemia (not specified as consequent upon abortion)	147 Other toxaemias of pregnancy	149 (a) Gaesarean section	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE	152 Cellulitis, acute abscess	CLASS XIII.—DISEASES OF THE BONES AND ORGANS OF LOCOMOTION	154 Osteomyelitis	CLASS XIV.—CONGENITAL MALFORMATIONS	(b) Spina bifida and meningocele	CLASS XV.—DISEASES OF EARLY INFANCY	158 Congenital debility

TABLE 24.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY, IN CALGARY, 1931—Continued

		Not Stated	
	Foreign	Other	
Nativity	For	United States	
Na		British	
		Canada	40460001 10 1 2384 4 1 1 0
		Widowed	
		65 years	
	ried	45-64 years	
ition	Married	25-44 years	
Condition		15-24 years	
1		Not stated	
Conjugal	(1)	65 years and over	
C	Single	45-64 years	100 I I I I I I I I I I I I I I I I I I
	S	25-44 years	
		15-24 years	040 -
		Under 15 yrs	4040001 40 ON-
		Total	404 2000
			Male Female Male Female Male Female Male Female Female Female Female Female Female Male Female Female Female Female Female Female Female Female Female Female Female Female Female Female Female
		CAUSES OF DEATH	160 (b) Injury at birth

1 1 1 1 1 1 1 1 1 1	TABLE, CALGARY, 1931
Male	Male
Suicide by cutting or piercing instruments Homicides Accidental deaths Accidental absorption of toxic gases Other acute accidental poisonings (except by gas) Conflagration Accidental burns (conflagration excepted) Accidental drowning Accidental injuries resulting from falling, crushing or landslide Injuries inflicted by animals Accidental electric shocks Other accidents	Accidents in mines and quarries Accidents caused by machines Railway accidents Street car accidents Automobile and motorcycle accidents Water transportation Water transportation Air transportation Accidents Automobile and motorcycle accidents Automobile and transportation Mater transportation Air transportation
168 173-175 176-198 178 179 180 181 183 183 193 193	н с н в р с в р

TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1931

									Months	1S			-	-	
	CAUSES OF DEATH		Total	January	February	March	lirqA	VsM	əunr	July	1sn3n V	September	October	November	December
DEATHS	DEATHS—ALL CAUSES	Total Male Female	695 410 285	65 37 28	82 38 24 24	22 22	59 31 28	31 21	54 35 19	66 36 30	57 32 25	54 27 27	35	49 31 18	60 41 19
CLASS	CLASS I.—INFECTIOUS AND PARASITIC DISEASES	Total Male Female	57 37 20	940	00 P F	4.62	040	n w vi	D 10 01	1- m 4	112	112	212	- 12 W	10 to 01
7	Measles	Male Female						11	-				- - -		
00	Scarlet fever	Male Female	ĪT					11					-		1
6	Whooping-cough	Male Female	-		11		11	1	1						
10	Diphtheria	Male Female	 00		- 1		11		-	-	11				-
11	Influenza Total	Male	4 ro	18	1 5	11	-	10	H	11		11	11		
	(c) With pneumonia	Male Female		-	-	11	11	11			11				-
	(e) With intestinal complications	Male Female	7.7	-					Ti	ĪĪ					-
	(f) With other causes	Male Female	eo			1 1.	-	12			T				
75	Erysipelas	Male	21		11	-		-	1-]]
17	Epidemic or lethargic encephalitis	Male Female	1 2					-	11		11			11	
18	Epidemic cerebrospinal meningitis	Male	-											11	11
23-32	Tuberculosis Total	Male	17	12	7 -	-	m —		m	3 -		-		1	1 5
23	Tuberculosis of the respiratory system	Male Female	10	1	2		27	-	-	- 27		-			11
24	Tuberculosis of the meninges and central nervous system				1-		1	11			1		11	1-	-

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and peritoneumFemale	system Male	Male	chronic	Female – Male	Al diseasesMale	remaie Male Female –	Total Male Female	Total Famala	Male	Sub-total Male	Male Male E-	Of the rectum Male	ducts Male	Of the pancreas	Female Male	Female Male	lung Male	Female mediastinum Male		(a) Cancer of the uterusFemale	other female genital organs	of the breast	Sub-total Male
the intestines and peritoneumFemale	Male	Disseminated tuberculosis, acute	tuberculosis, chronic Temals T	Female – Male	diseasesMale	(non-puerperal)		Male		Male	Of the stomach and duodenum	remate Male	Of the liver and biliary ducts	Female Male	Of other organs Male	Female Male	Of the lung Male	Of the mediastinum					

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	CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING Total ORGANS To (a) Simple purpura, haemorrhagia To (b) Other anaemias (c) Other anaemias (d) Other anaemia To (e) Leukaemia To (f) Diseases of the spleen To (f) Diseases of the spleen To (f) Diseases of the spleen The property of the spleen To (f) Diseases of the spleen To (f) Diseases of the spleen To (f) Diseases of the spleen To (f) Diseases of the spleen To (f) Diseases of the spleen To (f) Diseases of the spleen To (f) Diseases of the spleen To (f) Diseases of the spleen To (f) Diseases of the spleen To (f) Diseases of the spleen	CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF Total THE ORGANS OF SPECIAL SENSE Female 78 Encephalitis (non-epidemic) 79 Simple meningitis 79 Simple meningitis 81 Other diseases of the spinal cord 82 (a) Cerebral haemorrhage (b) Cerebral embolism or thrombosis Male Remale Rale Rale

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	CAUSES OF DEATH	(d) Hemiplegia and other paralysis, cause not specified. Female 85 Epilepsy Male 87 (d) Disseminated sclerosis Female 89 Diseases of the mastoid process Female 89 Diseases of the heart. Total 80 Diseases of the heart. Total 80 Diseases of the heart. Total 81 (a) Acute endocarditis, valvular diseases. Sub-total 82 (a) Chronic myocarditis and myocardial degeneration. Female 83 Diseases of the myocarditis and myocardial degeneration. Female 84 Diseases of the coronary arteries and angina Sub-total 85 Epilepsy Female 86 Female 87 (d) Myocarditis, unspecified, 45 years and over. Female 88 Female 89 Diseases of the coronary arteries and angina Sub-total 80 Male 80 Female 81 Female 82 (a) Chronic myocarditis and myocardial degeneration. Female 83 Refemale 84 Diseases of the coronary arteries and angina Sub-total 85 Female 86 Male 87 (a) Myocarditis, unspecified, 45 years and over. Female 88 Female 99 Diseases of the coronary arteries and angina Female 80 Female

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TABLE 25.—CAUSES OF DEATH FOR		CAUSES OF DEATH	(c) Others under this title	(a) Ulcer of the stomach	(b) Ulcer of the duodenum	Diarrhoea and enteritis (under 2 years of age)	Diarrhoea and enteritis (2 years and over)	Appendicitis	(a) Hernia	(b) Intestinal obstruction	3 Other diseases of the intestines	4 (a) Cirrhosis of the liver, specified as alcoholic	(b) Cirrhosis of the liver, not specified as alcoholic	5 (a) Yellow atrophy of the liver	(b) Other diseases of the liver	6 Biliary calculi	7 Other diseases of the gall-bladder and biliary passages	8 Diseases of the pancreas	129 Peritonitis, cause not specified
			4	117		119	120	121	122		123	124		125		126	127	128	7

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Total Male Female	Male Female	Female Male	Female Male	Female	Male	Male Female	Male	Femal	Female	Total	Female	- Female	Female	Female	Female	Total Male Female	Male Female
CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEMMal	130 Acute nephritis including unspecified (under 10 years Male of age) Femal	over)	Femal 133 Other diseases of the kidneys and annexa	134 Calculi of the urinary passages		136 Diseases of the urethra urinary abscess, etc		139 (a) Diseases of the ovary, Fallopian tube and peritoneum Female	(b) Diseases of the uterusFemal	CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE Total	140 Abortion with septic conditionsFemale	141 Abortion without mention of septic conditions (haemorrhage included)Female	145 Puerperal septicaemia (not specified as consequent upon abortion)	147 Other toxaemias of pregnancyFemale	149 (a) Caesarean sectionFemale	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE Male Female	152 Cellulitis, acute abscess

TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1931—Continued

		AND ORGANS OF Total Male Fema	Male Fema or locomotion Fema	Total Male Femal	Male Fema Male Fema Fema Fema Male Fema	Total Male Femal	Male Fema Male Fema Male Fema Total Male Male Fema Male
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		Male Female Female Male Female	(INCLUDED	Male Female	Male Female	Male Female	Male	Male	Male	Male	Male Female
	CAUSES OF DEATH	Injuries inflicted by animals	SPECIAL CLASSES OF ACCIDENTAL DEATHS	Accidents in mines and quarries	Accidents caused by machines	Railway accidents	Street car accidents	Automobile and motorcycle accidents	Other land transportation	Water transportation	Air transportation
		188 193 194		A	В	0	Q	闰	Į-l	ŗ	Ħ

TABLE 26.-TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN PUBLIC INSTITUTIONS, CLASSIFIED ACCORDING TO RESIDENCE OF DECEDENTS IN CITIES AND TOWNS OF 5,000 POPULATION AND OVER, ALBERTA, 1931

	Deaths elsewhere than in Public Institutions	city re and	Non- resident in Province	Female	AL REPO
	titut	Non-resident in city or town where death occurred and	Non- sident Province	Male	00 00 1 01
	Ins	Ton-resident in or town when death occurred		Total	4011
	blic	resi tor h oc	Resident in Province	Female	1748
	r Fu	Non- or deat	Resid in Provi	Total Male	2474
.	an ii		1	Femule	22882
	th		Resident	Male	80 19 19 26 26 26
	vher		Resi	Total	312 207 42 50
.	elsev			Female	247 247 26 26
	ths		Total	Male	188 1 128 1 23 30
	Dea			Total	223 224 547 56
-		ty a	in	Female	9 1 1 2
		n cit ere l and	Non- resident in Province	Male	1001
	sus	Non-resident in city or town where death occurred and	resi	Total	111111111111111111111111111111111111111
	carso	side	nt	Female	26 90 16 22
	nsti	n-re or t	Resident in Province	Male	65 169 36 25
	116	oN de	P. P.	IstoT	91 259 52 47
10	r un	Resident		Female	8 118 28 28 18 18 18 18 18 18 18 18 18 18 18 18 18
	111		eside	Male	154 175 38 18
Donthy in Dublic I	TOTAL		~ 	Total	138 264 15 219 303 17 44 66 3 46 36 1
	D C		_	Female	2 138 2 2 138 7 4 4 4 4 4 6
			Total		01 to 12 4
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		city re and	nt in	Female	2 5 3
		Non-resident in city or town where death occurred and	Non- resident in Province		84 H 81
				Total	377
			Resident in Province	Male Female	666 4 76 9 28 2
+ h c	2112	Non- ol dea	Resid in Provi	Total	
All Deaths	3			Female	42 16 21 42 42
I A		:	Kesident	Male	4504
		£	Kes	Total	0110 08 08 86
				Female	288 2180 7081 7081 7081 7081
			1 Otal	Male	482 482 77
		* E	4	Total	695 410 285 576 334 242 106 797 482 315 510 294 216 273 166 98 68 108 57 51 57 149 77 72 86 44 42 51
		Cities and Towns			Calgary Edmonton Lethbridge Medicine Hat

TABLE 27.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN PUBLIC INSTITUTIONS SHOWING THE NUMBER NON-RESIDENT IN THE PROVINCE OF ALBERTA, 1931

			All Deaths	chs				In P	In Public Institutions	titutior	υž	
	T	Total		Non-	Non-resident in Province	nt in		Total		Non	Non-resident in Province	e it in
	Total	Male	Female	Total	Male	Female	Total Male Female Total Male Female Total	Male	Male Female Total Male Female	Total	Male	Female
Total for Province	5302	3095	3095 2207	7.1	48	23	2264	1360	904	39	25	14

	80 years		367
	70-79 years	1109 1109 1109 1109 1109	692
	#169 year	2 1 1 1 1 1 1 1 1 1	655
931	50-59 years	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	581
INCE, 1	40-49 years	4	476
PROVINCE	80-39 years	8 1 100 1111 488 331 31 10 318 61 84 6 42 1877	357
HOLE	20-29 yemrs	21 1 8 248 - 1884 80 0 2 2 8 8 8 8 8 8 8 8	292
THE W	15-19 years	2	158
FOR	10-14 years	2 2004 2001 11	105
AUSES	2-9 years	1 2 1 2 1 1 1 1	147
0	1-4 years	1 104800 11000111008011 14 860	275
SELECTED	Under I yr.	22 11 21 12 11 12 11 11 11 11 11 11 11 1	1197
FROM			
PERIODS 1	All Ages	100 100 100 100 100 100 100 100	5302
TABLE 28.—NUMBER OF DEATHS BY AGE PI	CAUSES OF DEATH	1 Typhoid fever 8 Smallpox 8 Scarlet fover 9 Whooping cough 10 Diphtheria 11 Influenza 16 Acute anterior poliomyelitis 17 Lethargic encephalitis 28 Tuberculosis of the respiratory system 29 Tuberculosis of the intestines and peritoneum 28 Tuberculosis of the intestines and peritoneum 28 Tuberculosis of the intestines and peritoneum 29 Other tubercular diseases 45 5 Acute rubercular diseases 45 6 Acute rubercular diseases 46 6 Acute rubercular diseases 46 90 99,95 Diseases of the heart creutatory system 10 Diseases of the liver 110 Diarrhoea and enteritis (under 2 years of age) 111 Diseases of the liver 112 Diseases of the liver 113 Diseases of early infancy and malformations 1140,145 Rubel-150 Other diseases and accidents of pregnancy 15 Suicides 16 3 11 Suicides 17 Suicides 18 Other violent deaths 18 Other violent deaths 18 Other violent deaths 18 Other violent deaths 18 Other violent deaths	Total

TABLE 29.—PERCENTAGE OF DEATHS BY AGE PERIODS FROM SELECTED CAUSES FOR THE WHOLE PROVINCE, 1931

CAUSES OF DEATHS		ANNUAL REPORT, 1931	1
All Ages Ages Ag	90 years		00.00
All Ages All Ages 3.30 3.40 3.51 3.51 3.54 3.55	sissy 97-07	2.888 2.888 1.144 1.144 1.155 1.155 1.101 1.	
All Ages All Ages 3.30 3.40 3.51 3.51 3.54 3.55	8169 years	.31 .31 .6.59 .16.59 .16.59 .16.59 .16.59 .16.59 .17 .17 .17 .17 .17 .17 .17 .17 .17 .17	00.00
All Ages All Ages 3.30 3.40 3.51 3.51 3.54 3.55	50-59 years		00.00
All Ages All Ages 3.30 3.40 3.51 3.51 3.54 3.55	sisev 64-04	8. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	00.00 1
All Ages All Ages 3.30 3.40 3.51 3.51 3.54 3.55	30-39 years		00.00
All Ages All Ages 3.30 3.40 3.51 3.51 3.54 3.55	20-29 years	6.168 6.	100.00
8 3.51 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	sisev 61-61		
8 3.51 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	10-14 Vears	1.91 1.91 1.91 1.91 1.91 1.91 1.91 1.91	100.001
All Ages 1.30 1.02 1.153 2.30 3.51 1.153 8.355 8.355 8.355 1.177 1.199 1.100 1.000 1.000	sissy 6-3	1 2 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100.00
8 3.51 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	1-4 years	38.11.82.92.92.93.93.93.93.93.93.93.93.93.93.93.93.93.	00.00 1
nncy 10 10 10 10 10 10 10 10 10 10 10 10 10	Under I yr.	· · · · · · · · · · · · · · · · · · ·	100.00
	esaA IIA		100.00
1 Typhoid for Smallox Typhoid for Smallox Typhoid Smallox Typhoid Smallox Typhoid Influenza 110 Diphtheria 111 Influenza 116 Acute anter 118 Merimgocou 23 Tuberculosi 24 Tuberculosi 25 Tuberculosi 24 Tuberculosi 25 Tuberculosi 26 Acute rheu 79 Meningitis 26 Acute rheu 79 Meningitis 26 Acute rheu 79 Meningitis 26 Acute rheu 79 Meningitis 26 Acute rheu 79 Meningitis 26 Acute rheu 79 Meningitis 26 Acute rheu 68 Acute rheu 68 Acute rheu 68 Acute rheu 69 Acute rheu 68 Acute rheu	CAUSES OF DEATHS	Typhoid fever Smallpox Measles Scarlet fever Whooping cough Diphtheria Influenza Acute anterior poliomyelitis Lethargic encephalitis Lethargic encephalitis Tuberculosis of the respiratory system Tuberculosis of the intestines and peritoneum Other tubercular diseases Malignant tumours Meningitis Cerebral haemorrhage, apoplexy Diseases of the ever Meningitis Cerebral latematic fever Meningitis Cerebral latematic fever Meningitis Other diseases of the respiratory system Disarshoea and enteritis (under 2 years of age) Disarses of the liver Nephritis (acute and chronic) Diseases of the liver Nephritis (acute and chronic) Puerperal septicaemia Appendicitis Diseases of carly infancy and malformations Suicides Suicides Other diseases Other violent deaths Other defined diseases Ill-defined or unknown	Total

TABLE 30.—MARRIAGES DURING THE YEAR 1931—BY MONTHS

	December	120 114 22 129 129	253	543
-	November	166 99 31 21 10	369	708
	October	91 223 17 22	177	407
-	September	90 1182 149 140 140	122	80 80 80
	August	1111 92 133 155 14	176	422
us	July	116 100 15 12 12 22	224	480
Months	June	100 101 20 8 6	204	460
	May	110000000000000000000000000000000000000	157	330
	lirqA	2 6 9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	166	374
	March	1288	123	292
	February	88 88 117 10 55	199	410
	Lanuary	121 131 6	188 57 58	378
	IstoT	121 1083 213 1433 283	23 53 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5142
		Edmonton Calgary Lethbridge Medicine Hat	Wetaskiwin Drumheller Rural Districts	Total

TABLE 31.—MARRIAGES—CONJUGAL CONDITION OF CONTRACTING PARTIES, 1931		
MARRIAGES-CONJUGAL COND	1931	
MARRIAGES-CONJUGAL COND	PARTIES,	
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TABLE 35.—DIVORCES BY JUDICIAL DISTRICTS FOR THE YEAR 1931

Judicial Districts	Number of Divorces	Granted to Husband	Granted to Wife
Edmonton Calgary Medicine Hat Lethbridge Red Deer Wetaskiwin Camrose Stettler Hanna Macleod Peace River Grande Prairie Vegreville	77 64 8 3 1 1 2	39 25 1 1 1 2	38 39 7 2 1
Total	156	69	87

DIVORCES IN ALBERTA SINCE THE PASSING OF THE ACT

Year	Granted to Husband	Granted to Wife	Total
1919	3	3	6
1920	74	26	100
1921	53	37	90
1922	80	49	129
1923	57	32	89
1924	66	53	119
1925	59	42	101
1926	79	75	154
1927	83	66	149
1928	91	84	175
1929	77	71	148
1930	64	87	151
1931	69	87	156

TABLE 36.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS, 1931

							Mont	ths	1				_
	Total	January	February	March	April	May	June	July	August	September	October	November	December
Total for the Province	708	73	62	78	62	58	58	60	41	49	57	45	6

TABLE 37.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE, 1931

	Tota	al bir	ths	Leg	itimat	te	Illegitimate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province	708	375	333	608	317	291	100	58	42

TABLE 38.—DEATHS OF INDIAN CHILDREN (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE, FOR EACH SEX, 1931

	Causes of Death	Total	Male	Female
ALL CAU	JSES	122	73	49
9	Whooping-cough	3	2	1
11	Influenza	6	2	4
15	Erysipelas	1	1	_
23 24	Tuberculosis of the respiratory system Tuberculosis of the meninges and central ner-	19	14	5
	vous system	3	2	1
25-32	Tuberculosis, other forms	2	2	
34	Syphilis	1		1
86	Convulsions	3	2	1
106	Bronchitis	6	5	1
107	Bronchopneumonia	15	9	6
108, 109	Pneumonia	20	12	8
115	Diseases of the buccal cavity and annexa and of the pharynx and tonsils (including			
	adenoid vegetations)	1	1	
119	Diarrhoea and enteritis	8	6	2
122	Hernia, intestinal obstruction	1	1	
157	Malformations	2		2
158	Congenital debility	7	2	5
159	Premature birth	8	3	5
161	Other diseases peculiar to early infancy	7	5	2
176-198	Other external causes	2	1	1
	Other specified causes	2	2	
199, 200	Unspecified or ill-defined causes	5	1	4

TABLE 39.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, 1931

			ANNUAL REPORT, 1931	177
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	90-94 years	- -		
	85-89 years	2 2		
	80-84 years	481		-1 111111
	75-79 years	∞ 44		Tilletti
	70-74 years	21 80 4	<u> </u>	000
	65-69 years	130	8-1	1
	60-64 years	10 m 01	1788	
	55-59 years	400		
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	20-24 years	88	6.01	×0
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	3 years			
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	Under 1 yr.	122 73 49	221	14 22 27 0
	Total	351 176 175	2008	80 40011 010
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	CAUSES OF DEATH	THS—ALL CAUSES	SS I.—INFECTIOUS AND PARASITIC DISEASES 7 Measles 8 Scarlet fever 9 Whooping—cough 10 Diphtheria 11 Influenza (a) Sole cause (b) With pneumonia (c) With other causes (f) With other causes 15 Erysipelas 16 Liberculosis 17 Total	Tuberculosis of the meninges and central nervous system Tuberculosis of the intestines and peritoneum Disseminated tuberculosis
		DEA	CLA 23	
	IstoT	Total 351 1 Male 1776 Female 1775	Total 174	Tuberculosis of the respiratory system. Tuberculosis of the meninges and central nervous system. Tuberculosis of the intestines and peritoneum. Tuberculosis of the intestines and peritoneum. Pemale Disseminated tuberculosis

TABLE 39.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, 1931—Continued

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TABLE 39.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, 1931—Continued

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		CY,	sej	specified		IES is an	MA.		VFA	ancy	(70.3
ssag		ST	n of	ot s		THE BONES	FOR	nalus	X II	, inf	ıtia
v pa	of the breast	RAL	entio	a (n ion)		HE	MAL	cepl me	ARL	early	emei
inari	the	R PE	e in	emia		F 7	I I	and	Ti Ti	ty	ile d
e ur		S OI	thou	septicaemia (not upon abortion)		ES COTIO	TIN	tal l ifida	0 83	debilir birth culiar	sem
of th	ases	ASE IE F	tion without mention o		Dystocia	DISEASES OF THE BONES AND ORGANS LOCOMOTION Of the joints (tuberculosis and rheumatism excepted)	-CONGENITAL MALFORMATIONS	Congenital hydrocephalus Spina bifida and meningocele	ASE	re b	VILIT
Calculi of the urinary passages	(c) Diseases	-DISEASES OF PREGNANCY, AND THE PUERPERAL STATE	Abortion without mention of (haemorrhage included) .	Puerperal			100		DISE	Congenital debility Premature birth Diseases peculiar to early infancy (unspecified)	VI.—SENILITY Male Female dementia (70 years and over) Female (b) Without senile dementia (70 years and over) Female
Calc	(c)	ANI	Abo	Pue	(p)			(a) (b)	7	Con: Prer Dise	VI.—
134	139	CLASS XI.—DISEASES AND THE PU	141	145	149	CLASS XIII.— OF	CLASS XIV	157	CLASS XV.—DISEASES OF EARLY INFANCY	158	CLASS XVI
P=4	part	LAS			-	LAS	LAS		LAS		LAS

TABLE 39.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, 1931—Continued

32		VIT	AL	STAT	ISTIC	S BR	ANCH
	Not stated	111	1		11	111	
	1900-sig 001		1				
	95-99 years						
	90-94 years		-				
	85-89 years				11	111	
	80-84 years						
	2159 y 67-37	111					
	70-74 years		1			111	
	81894 99-63						
	81664 years						
	55-59 years		-				
	50-54 years						
	45-49 years					0 0	- -
Ages	40-44 years				11	111	
	35-39 years				-	- -	
	30-34 years						
	25-29 years		-				
	20-24 years		-		11		
	15-19 years						
	10-14 years	1 1					
	5-9 years	100					
	4 years				11		
	3 years				11	- -	
	2 years					1	-
	l year		1				
	Under 1 yr.	7-1-7	-			70.14	1 1 4
	Total	ο φ N			~ ~ ~	111 2	1-01-00
		Total Male Female		ule	ıle	Total Male Female	Male Kemale Female
		otal Aale ema	Male	remale Male Female Male Female	Male Female	otal Aale ema	Male Female Male Female
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		EAT	an		from falling,	EAT	lefin
		L D	age		fror	F D	iII—ć
	_	(TA)	r of	atio	J	0 8	or
	CAUSES OF DEATH	DEN	yea	ffoc	ultin	USE	ified
	DE	CCI	one	ns I	res	CA	spec
	OF	R A	suo	nica ng .	ies	TED	not
	SES	T	pers	echa	njur	EFIN	ath 1
	AUS	LEN	of	il m	il i	IQ-	leath f des
		VIO	icide of persons one year of age and over by firearms	lents	dental injuries resulting from falling, crushing or landslide	-III	o sa od
		II.	Homicide of persons one year of age and over by firearms	Accidental mechanical suffocation	Accidental injuries resulting crushing or landslide	111	199 Sudden death 200 Causes of death not specified or ill-defined
		XV	3 H			X	8 0
		CLASS XVII,—VIOLENT OR ACCIDENTAL DEATHS Female	173	182	186	CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH	19
		CL				CL	

TABLE 40.—BIRTH, MARRIAGE, DEATH, AND OTHER RATES PER 1,000 POPULATION FOR THE YEARS 1916-1931

	1931	23.57 7.02 7.24 16.32 69.38
	1930	26.74 8.08 8.33 18.41 63.57 6.46
1001	1929	26.19 9.29 9.65 16.54 77.40
OTOT CHARTE	1928	24.79 9.12 9.00 15.79 76.50
	1927	24.03 7.58 8.16 15.87 74.51 6.38
-	1926	23.79 7,40 8.49 15.31 81.63
	1925	25.02 7.27 7.27 7.86 16.16 72.90 5.76
	1924	24.74 7.50 8.30 16.42 82.40 6.18
	1923	25.75 6.09 8.06 18.75 90.54
	1922	26.44 6.99 8.62 17.83 91.93 6.68
	1921	27.89 7.92 8.39 19.50 85.65
	1920	26.72 8.24 9.15 17.57 93.70
,	1919	23.95 7.90 9.33 14.62 110.30 6.44
	1916 1917 1918	27.01 25.72 23.95 8.54 7.90 8.09 13.86 9.33 18.92 11.86 14.62 87.30 107.10 110.30 6.48 5.51 6.444
	1917	
	1916	27.87 8.53 8.18 18.69 90.50
		Birth Rate Marriage Rate Death Rate Rate of Natural Increase. Infantile Death Rate (per 1,000 births) Puerperal Death Rate (per 1,000 births)

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	Births	Deaths from Puerperal Conditions	Death Rate per 1,000 Births
Whole Province	17,252	8.7	5.04
City of Edmonton City of Calgary Small Cities Rural Districts	2,400 1,886 1,460 11,566	122 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3.42 8.22 4.78

VITAL STATISTICS BRANCH

TABLE 42.—VITAL STATISTICS, 1905 TO 1931 INCLUSIVE

	Year	Births	Marriages	Deaths	Excess of Births over Deaths
1905		421	187	114	307
1906		3.003	927	1.091	1,912
1907		4,732	1.907	1,578	3.154
1908		5,973	2,032	2.188	3,785
1909		6,897	2,384	2,662	4,235
1910		8,321	3,086	3,526	4,705
1911		8,813	3,630	3,618	5,195
1912		10,284	4,429	4.232	6,052
1913	-	11.871	5.053	4.432	7,439
914		13,685	4,623	4,147	9.538
915		13,452	4,202	3,588	9.864
1916		13,331	4,230	4,058	9.273
917		13,576	4.270	4,047	9.529
1918		14,890	4,048	7,924	6.966
1919		14,130	4.718	5,507	8,623
920		16,565	5.110	5,675	10,890
1921		16.414	4.661	4.940	11.474
922	***************************************	16,163	4,272	5,281	10.88
1923		15,153	4.117	4.843	10.320
1924		14,598	4.160	4.907	9,69
1925	***************************************	15,014	4,363	4.717	10.29
1926		14,455	4,498	5,156	9.29
1927		14.897	4.707	5.059	9.83
1928		15,692	5.776	5,699	9,993
1929		16,924	6.004	6,239	10.688
1930		17.649	5.334	5,396	12.153
1931		17,252	5.142	5,302	11.95

POPULATION, BIRTH, MARRIAGE AND DEATH RATES, 1931

Population	731,605
Birth Rate per 1,000	23.57
Marriage Rate per 1,000	7.02
Death Rate per 1,000	7.24

RATIO OF MALE TO FEMALE BIRTHS, AND OF BIRTHS TO DEATHS

Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths	Year	Births of Males to 1,000 Births of Females	Ratio o Births to Deaths	
901	1,081	3.55	1917	1,061	3.25	
902	1,010	2.59	1918	1,069	1.88	
903	1,056	2.95	1919	1,074	2.56	
904	1,118	3.04	1920	1,055	2.92	
905	1,059	3.11	1921	1,055	3.32	
906	1,094	2.07	1922	1,034	3.06	
907	1,075	2.96	1923	1,072	3.13	
908	1,077	2.73	1924	1,036	2.97	
909	1,086	2.59	1925	1,042	3.18	
910	1,065	2.69	1926	1,053	2.80	
911	1,103	2.43	1927	1,065	2.94	
912	1,084	2.43	1928	1,064	2.75	
913	1,053	2.67	1929	1,042	2.71	
914	1,081	3.30	1930	1,027	3.21	
915	1,100	3.47	1931	1,075	3.25	
916	1,063	3.29				

DEATHS OF INFANTS UNDER ONE YEAR, DURING THE YEAR 1931

To 1,000 Births	69.38
To 1,000 Deaths from all Causes	225.76
Number of Stillbirths in Alberta	453



